# PACIFIC MOTOR BOAT

Almanac OF THE PILOT HOUSE

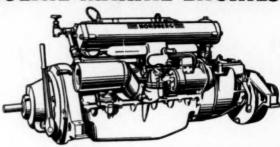
Handbook



# **NORDBERG GASOLINE MARINE ENGINES**

Four 6-cylinder models, all designed and built from stem to stern as full marine engines — with 7 main bearing crankshaft, and separate gear drives for generator and water pump... assuring greater reliability and safety. Available with sturdy front power take-off as shown, also with

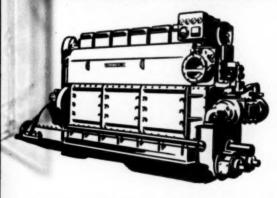
auxiliary pulley drives. Furnished for direct drive or with Nordberg designed



and built reverse and reduction gears in ratios of 4.12, 3.32, 2.44 and 1.88 to 1. Power range, 80 to 145 H.P.



# NORDBERG MARINE DIESEL ENGINES



Nordberg 4-cycle Marine Diesels, of the type illustrated, are designed for powering fishing vessels, tugs, towboats, work boats and larger yachts. Available in 9" x 11½", 13" x 16½" and 16" x 22" sizes, ranging from 220 to 1750 H.P., supercharged and non-supercharged, for direct or reduction gear drive. These rugged, compact Diesels pack plenty of dependable, low-cost power for the tough-

est marine service. Other Nordberg Diesels are built in both two and four-cycle types in sizes from 10 H.P. to 9600 H.P. for marine propulsion or auxiliary service.

NORDBERG MFG. CO . MILWAUKEE 7, WISCONSIN

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# PACIFIC MOTOR BOAT

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# Distances on the Pacific-1

Distances in nautical miles from ports in British Columbia to ports on the west coast of the United States and in Alaska

	Balbon, Canal Zone	San Fran- cisco, Calif.	Port- land, Oreg.	Cape Flat- tery, Wash.	Scattle, Wash.	Tacoma, Wash.	Hyder, Alaska (via inside route)	Ketch- ikan, Alaska (via inside route)
Victoria, British Columbia Vancouver, British Columbia	3, 969 4, 037 4, 040 4, 427	745 813 816 1 1, 220	296 364 367 1 822	61 129 132	70 125 128 573	90 145 148 593	629 586 560 122	596 553 527 90

<sup>1</sup>Via Dixon Entrance and Brown Passage; subtract 115 miles for distances via Hecate Strait.

NOTES:—For distances from British Columbia ports to other ports in Alaska, add distances from the former to Ketchikan in this table and the distances from Ketchikan to the other Alaskan ports is given in Table 2.

To obtain the distance from a port in British Columbia to a port on the Pacific coast of the United States south of Cape Flattery, add distances to Cape Flattery in this table and in Table 3.

Distances from ports in British Columbia to Alaskan ports, via Strait of Juan de Fuca and thence outside may be obtained by adding distances to Cape Flattery in this table to distances from Juan de Fuca entrance to Alaskan ports as given in Table 2.

Source: Distances Between U. S. Ports. 1938. U. S. Coast & Geodetic Survey.



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CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

# Distances on the Pacific-2

Distances in nautical miles between ports in Alaska and from Alaskan ports to Seattle, Portland, and San Francisco

San Francisco Bay	1,268	1,350	1,388	1,88	1.18 1.18 1.18 1.18 1.18 1.18 1.18 1.18	545.	2, 034	1,444
Columbia River en-	PEE.	18 8 8 18 8 8	808	282	1,224	1,344	£86	11.22
Juan de Fuca, entrance	8672 872 872 872 872 872 872 872 872 872 8	878	87.8 74.8 74.8 74.8	1,002	1,108	1,133	888	1,12,2 2,173 6,166
Seattle (inside)	388	\$12.55	100	1,350	1.474	1,531	2,000	3,0857
Point Barrow	9999	222 2222	96144	1,916	1,305	1. 576	1,230	1, 136
9moN	1, 935 2, 078 1, 850	1.818 1.758 1.758	1,659	1,407	1,398	1,067	888	200
St. Paul Island	1,542	1.335	1,286	1,014	815	44 674 528	<b>888</b>	¥ 58
Unimak Pass, 5 miles 254° true from Cape Sarichef Lighthouse	1,308	1,191	1,032	86.8	8578 306	25±8	\$28 \$28	25.5
Unalaska	1.360	1,243	1,046	730	703	562 462 343	152	8228
False Pass	1,245	1,038	852.28	695	8088	<b># 158</b>	106	238.082
esun	1, 259	888	7822	9888	392	121	200	208 208 305 305
Chigaile	964	22.23	77.58 948 948	180	888	178	228	2018 918 427
Uyak	882	2002	282	2888	225 137 259	2 %	24G 377 492	674 674 576
Kodiak	959	888	558 502 412	888	222	18.2	335	55.7.55 9.37.7.50
Апслотаде	875	1468	588	888	137	#88 #88	513 626 741	833
Seldovia	1,983	708 618 643	579 511 404	22.25	146	137	392	812 812 714 714
Dawae	55.08	620 530 555	444	9719	146	1228	3885	988.8
Latouche	528	587 497 522	3300	88	300	883	200 730 730	8888
ToblaV	713 856 637	2000	ES#	2 8	<b>#</b> # # # # # # # # # # # # # # # # # #	\$3.5 \$3.5 \$3.5 \$3.5 \$3.5 \$3.5 \$3.5 \$3.5	812	919
Cordova	5.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45	500	382	76	148 386 386	884	8 6 50	1,014
Yakutat	388	288	130	SAS	314 530 530	542	252 252 262 263 263 263 263 263 263 263 263 26	915 1, 149 1, 542 1, 542 2, 051
Cape Spencer	314	197	130	888	21.00	7288 202 208 208 208	983.2	1,28 1,828 1
Sitks	17088	186	226	844	400	128	288	1,286
Skakway	2258	88	271	519 531 522	555	200 200 200 200 200 200 200 200 200 200	17804	1,126
neen	224 367 147	100	107	497 497 497	530 618 746	609 675 833	1588	1, 335
Petersburg	£88 40	180	2 158 197 336	2864 2866 287	836	922 922	1, 243	1, 191
llegnatW	28	274	587	625 637 628	248 877	266	98.18	
Hyder	143	258 367 449	1 368 457 596	844 856 847	888	950	388	1,451
Ketchikan	2.00	306	314	151 151 150 150	737 828 953 1,0	816 959 882 1, 025 1, 040 1, 183	1, 116 1, 250 1, 040 1, 245 1, 388 1, 169 1, 360 1, 503 1, 284	8828
Prom-	Ketchikan Hyder Wrangell	Petersburg Juneau Skagway	Sitka Cape Spencer Yakutat	Cordova. Valdez. Latouche.	Seward Seldovia Anchorage	Kodiak Uyak Chignik	Unga False Pass Unalaska	Unimak Pass 1, 306 1, 451 1, 232 8t. Paul Island 1, 542 1, 685 1, 466 Nome 1, 635 2, 078 1, 859 Point Barrow 2, 444 2, 867 2, 368

J. Via Cape Hinchinbrook. Via Peril Strait. 1 Via Sumner Strait and Cape Ommaney.

Norga — Distances from ports in southeast Alaska (except Sitka) to ports in western Alaska are via inside route to Cape Spencer.

Distances from ports east of the Alaska Peninsula to Unabaka are via Akutan Pass; to other ports north of the peninsula they are via Unimak Pass.

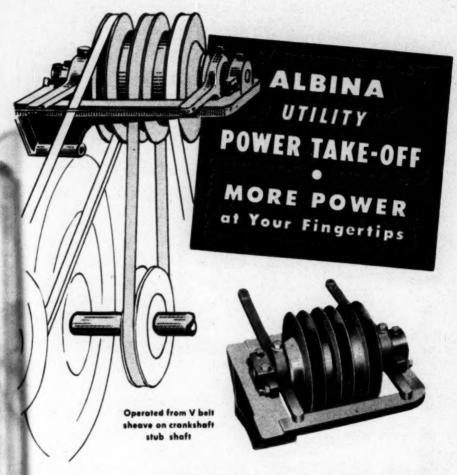
Distances to Seattle (inside) are via inside route to Cape Spencer.

Distances to Latouche from points eastward are via Cape Hinchinbrook.

# Distances on the Pacific-3

Distances in nautical miles between ports on the Pacific coast of the United States

Continuing   Con	From-	San Diego, Calif. Los Angeles Harbor, Calif. Santa Barbara, Calif. Port San Luis. Calif. Monierey, Calif. Monierey, Calif. San Francisco, Calif. Stockton, Calif. Stockton, Calif. Crescent City. Calif. Fort Orford, Oreg. Fort Orford, Oreg. Columbia River entrance, Oreg. Columbia Oreg. Columbia River entrance, Oreg.
28. 28. 28. 28. 28. 28. 28. 28. 28. 28.	de Diego	
Second Columb   Alvor Columb   Alv		
Richardson   Rock, 50   Richardson   Ri		
Fig. 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Richardson Rock, 5.0 miles 225° true from	
Sept. Processors   Montetey   Mon	ngntnouse	
San Frances of Bay Fr	Monterey	
Sept. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	trance, 1.0 mile 235°	
Second Classics	San Francisco (Ferry Bldg.)	
23.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	Stockton	
23.28 23.29 23.29 23.29 23.29 23.29 23.20 Crescent City  24.28 23.29 23.29 23.29 23.29 23.20 Crescent City  25.29 23.29 23.29 23.29 23.29 23.20 23.20 Crescent City  25.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 Columbia River  25.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 Columbia River  25.20 23.20 2	Eureka, Humboldt Bay	
223 229 229 229 229 239 239 239 239 239	Crescent City	
250 252 252 155 114 25 252 253 253 253 253 253 253 253 253	Port Orlord	
22 22 22 22 22 22 22 22 22 22 22 22 22	Marshfield, Coos Bay	62 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
28 2 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Gardiner, Umpque River	250 250 250 250 250 250 250 250 250 250
Columbia River entrance  Columbia River entran	Florence, Suislaw River	7856 6686 6886 7886 7886 7886 7886 7886
Columbia River cultrance, 0.5 mile 270° true from 10.5 mile 270° true f	Newport, Yaquina Bay	733 7733 7733 7733 7733 7733 7733 7733
25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Actoria Actori	mort aut ours slim 8.0	88888888888888888888888888888888888888
100 % 4 4 6 6 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Astoria	
Portland	Longview	946 941 941 941 941 941 941 941 941 941 941
Type Base Sass See Sa	Tancounv	1,005 990 990 990 990 990 990 990 990 990
A S S S S S S S S S S S S S S S S S S S	Portland	
15 222 292 233 252 232 232 252 252 252 252 252 25	South Bend, Willage Bay	
Cape Flattery, 2.7 miles	Aberdeen, Grays Harbor	
	Cape Flattery, 2.7 miles 325° true from lighthouse	9011 9017 9017 9017 9018 9018 9018 9018 9018 9018 9018 9018



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ALBINA ENGINE & MACHINE WKS.

2100 N. Albina Ave. Portland, Oregon

# Distances on the Pacific-4

Distances in nautical miles between ports on the Pacific coast of the United States

ещооеТ	338	8118	888	223	228	222
Seattle	2228	522	120	888	548	82 S
Point Wells	目目名	222	Baa	228	323	8 23
Port Townsend	822	222	258	222	222	888
Port Ludlow	882	864	222	282	1∞	2285
Port Gamble	2012	85\$	252	225	<b>a</b> ∞	2572
Port Angeles	882	288	288	281	<b>\$</b> ±	8322
Olympia	889	1262	222	22	182	2225
Mukilteo	==8	288	322	4 6	828	8284
Everett	115	588	828	72	288	2223
Eagle Harbor	ដីដីន	222	22	888	888	SES
Dupont	SSI	828	8 2	54.5	888	5778
Bremerton	Sar	102 25	88	823	853	<b>CHIS</b>
Boundary Line (Lime Kiln)	EES	28	285	1288	841	255
Blaine	113	18 21	222	223	855	222
Bellingham	107	83	288	ESZ	382	\$828
Anacortes	22	288	LII	889	484	8222
Juan de Fuca entrance 5.5 miles 345° true from lighthouse	8 28	101 113 107	222	1115	888	\$ E 2 2
Gape Flattery 2.7 mines 325° true from emorial structionse	~ g	113	525	5118	888	8523
From-	Cape Flattery Juan de Fuca entrance Anacortes	Belingham Blaine Boundary Line (Lime Kiln)	Bremerton Dupont. Ragle Harbor	Everett Mukilteo Olympla	Port Angeles Port Gamble Port Ludlow	Port Townsend Point Wells Seattle

Distances to Olympia and Dupont are via Clovos Passage, except from Tacoma.

Distances to Tacoma are via Point Robinson.

Per distances to Olympia via Nigonally Reach add 2½ miles, except Dupont.

For distances from all ports via Rogario Strait to boundary line off Patos Island, add 18 miles to distances abreast of Lime Kiin.

# **RULES OF THE ROAD**

#### RULE OF GOOD SEAMANSHIP

Good seamanship is defined as the practice of every precaution which may be required by the ordinary practice of a prudent and careful navigator. The first requirement of good seamanship is obedience to rules of the road. Good seamanship requires the safe conduct of the vessel under ordinary rules or under the rule of special circumstances.

Each set of statutory rules for various navigable waters of the United States state the rule of good seamanship in the same words:

"Nothing in these rules shall exonerate any vessel, or the owner or master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to carry a proper lookout, or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case."

#### International, Inland and Pilot Rules

Three sets of regulations for the prevention of collisions apply to vessels operating in Pacific Ocean, coastal and inland waters. These are the International Rules, Inland Rules and Pilot Rules. The first two are statutory, while the Pilot Rules are regulations established by the U. S. Coast Guard for navigating certain harbors, rivers and inland waters of the United States and its territories. These regulations may be obtained from the Coast Guard.

For many entrances to harbors, bays, and estuaries, specific lines of demarcation between the high seas and inland waters have been laid down. When not prescribed, the International Rules apply outside of a line approximately parallel with the general trend of the shore, drawn through the outermost buoy or other aid to navigation or any system of aids.

Waters wholly within a state may come under the jurisdiction of that state and in that case the federal Rules may not apply. In such case the navigation laws of the state will apply.

#### **Application of Rules**

The Rules of the Road are designed to prevent collisions of vessels. These rules are applicable whenever danger of collision exists. These rules apply to all types of vessels when underway. A vessel is under way when she is not at anchor, or made fast to the shore, or aground. Under the various rules, a

"steam vessel" shall include any vessel propelled by machinery, and will be referred to in the following paragraphs as motor vessels.

#### COMPARISION OF VARIOUS RULES

Rules of Inland Waters, International Rules, and Pilot Rules, have a surprising degree of uniformity in principle, despite numerous differences in detail. The following situations are treated as uniform:

- Approaching motor vessels in good visibility are classified into three situations: meeting, overtaking, and crossing.
- 2. Approaching sailing vessels are classified and required to pass one another in accordance with their course in respect to the direction of the wind which propels them both.
- 3. The rules in fog are uniform in the following: All vessels are required to give notice of their approach by signals on the whistle, siren, or fog horn, and these signals must be given at frequent intervals. Vessels in fog must go at moderate speed, which has been defined as bare steerageway, or at such speed as will enable the vessel to come to a standstill in half the distance of visibility.
- 4. Nothing in the various Rules shall exonerate any vessel, or the owner or master or crew, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper lookout, or of the neglect of any precaution which may be required by the ordinary

practice of seamen, or by the special circumstances of the case.

5. The rules are alike in recognizing that situations may arise where specific rules will not work, and where departure from these rules is accordingly necessary.

The most important differences in the several sets of Rules are found in the use of whistle signals, both in clear and good weather, and in running and anchor lights and day signals required for various types of vessels in different jur-

isdictions. An accurate knowledge of the International, Inland, and Pilot Rules should be minimum equipment for officers of such vessels. Copies of the Pilot Rules may be obtained free of charge, from the Coast Guard.

It should be noted that an Act of Congress, April 25, 1940, amended the Inland Rules to some extent, principally in regard to lights required to be carried by every vessel propelled by machinery and not more than 65 feet in length except towboats and tugs.

### RIGHT OF WAY

#### PRIVILEGE AND BURDEN

In setting forth the right of way for motor craft, the various Rules designate the vessel which holds the right of way, under normal situations, as the privileged vessel. The privileged vessel is required to continue exactly as she is doing from the time risk of collision begins until the vessels are finally past and clear.

The court interpretation of holding course and speed has been held to be such course and speed as would normally have been followed by the privileged vessel in navigating in localities where changes in compass headings and speed are necessary.

The vessel which is required to take positive action to prevent collision is the burdened vessel, and under various situations the rules require the burdened vessel to keep clear, to avoid crossing ahead, and to reduce speed, stop or reverse.

Despite the initial requirement that the privileged vessel hold her course and speed, the Rules make it clear that she does not exercise this duty right into collision itself. As soon as it is apparent that collision will be inevitable if the privileged vessel continues to hold her course and speed, she is required to take action to avert collision.

#### MEETING SITUATION

Two vessels are said to be meeting if their courses are substantially, or within a point or two of, opposite, or if, as in the case of a winding river, they will become opposite at the point where they meet, even though they may at first sight each other at right angles. In open water, under all Rules alike, meeting vessels are required to pass port to port. unless they are already so far to the

starboard of each other that they will clear on that side a safe distance without changing course. In order that they may pass safely port to port, a sufficient change of course to the right is required of both vessels, not in the jaws of collision, but at such a safe distance apart and a sufficient number of degrees to avoid even getting into dangerous proximity.

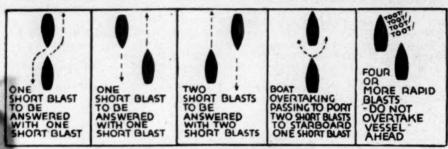
#### CROSSING SITUATION

Two motor vessels are said to be crossing when one approaches the other on either side from a point or two in the bow or two points abaft the beam. A "point" as expressed here, is 11½ compass degrees.

When two vessels are crossing, so as to involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way of the other. In this instance, the burdened vessel must slacken her speed, stop, or reverse, or change her course to the right so that the danger of collision no longer exists. Risk of collision can be said to exist when the relative compass bearing of an approaching vessel does not appreciably change.

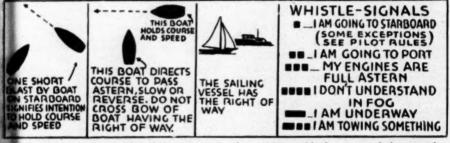
Under Inland and Pilot Rules in the crossing situation, the privileged vessel (the vessel which has the other on her port side) signifies her intention to hold her course and speed by one short blast of the whistle, which the burdened vessel answers by a short blast of the whistle. If, when two vessels are approaching each other, either vessel fails to understand the course and intention of the other, from any cause, the vessel so in doubt shall immediately signify the same by giving several short and rapid blasts, not less than four, of the whistle, which is the danger signal.

# Situations from the Pilot Rules



Left to right: 1. Approaching head on, both alter course to the right and pass on port side.

2. Both vessels passing to port, rulable here, each pilot having signaled his intention. 3. Passing to starboard, rulable here after each pilot has signaled his intention. 4. Overtaking vessel may



per to starboard or port after the necessary signals are given, with the assent of the overtaken vessel. 5. Two vessels approaching at right angles in such a manner as to involve risk of collision. FOR COMPLETE RULINGS SEE YOUR COPY OF PILOT RULES.

#### OVERTAKING SITUATION

An overtaken vessel is one going in the same direction, or within six points (67½°) of the same direction, as a slower vessel ahead. The rules are uniform in recognizing that the leading sel was there first, and that the overtaking vessel must take positive action to keep clear of her as long as the risk of collision remains. It is a situation of privilege and burden, with the accompanying obligations of the privileged vessel to keep her course and speed, and of the burdened vessel to take all the positive action necessary to keep clear. This principle of privilege and burden is common to all sets of Rules, not only in the overtaking situation but when two steam vessels are crossing, when a steam vessel meets a sailing vessel, and when one ordinary sailing vessel ap-proaches another. A sailing vessel, which under all other conditions has the right of way over motor vessels, is the burdened vessel if overtaking a motor vessel, and must keep clear.

#### FISHING VESSELS

Sailing vessels under way shall keep out of the way of sailing vessels or boats fishing with nets, lines, or trawls. This Rule shall not give to any vessel or boat engaged in fishing the right of obstrucing a fairway used by vessels other than fishing vessels or boats.

#### SAILING OVER MOTOR VESSELS

When a motor vessel and a sailing vessel are proceeding in such directions as to involve risk of collision, the motor vessel shall keep out of the way of the sailing vessel. However, if a vessel is proceeding by sail and motor, it shall be considered a motor vessel.

#### SAILING VESSELS

When two sailing vessels are approaching one another, so as to involve risk of collision, one of them shall keep out of the way of the other. A vessel which is running free shall keep out of the way of a vessel which is closehauled. A vessel which is closehauled on the port



# Straight Steers by Shiffen

Suffering catfish! This engine's not in any shape for a fishing trip next week. The sight of those worn cylinders and gummy piston rings would scare Neptune himself. And it hasn't been long since the last overhaul—

Aye, Mate, it's not a pretty picture. But you can't blame your engine. Look close down there and you'll see that your lubricant hasn't done the job it should. Fine engines like this need New RPM Motor Oil. It scuttles carbon, corrosion and rust.



Take my advice, Mate, and give New "RPM" a try. It doubles engine life between overhauls due to lubrication because it cuts in half the wear rate of piston rings and cylinder walls. You can get it at any of the 273 Standard Marine Stations from Mexico to the Aleutians.

Sounds like a straight steer to me, Skipper. Proper lubrication not only keeps the fun in cruising—it cuts costs, too. From now on I'm going to chart my course with New RPM Motor Oil!



STANDARD DIL COMPANY OF CALIFORNIA

CHEVRON BASCLINE STANSARD DIESEL FUELS SPM SELD DIES RPM MUTER DI , RPM DRENGES RPM UNTOGLED MOTUR DIE NPM DUTTGRAND GERF LUBRISANT tack shall keep out of the way of a vessel which is closehauled on the starboard tack. When both are running free, with the wind on different sides, the vessel which has the wind on the port side shall keep out of the way of the other. When both are running free, with the wind on the same side, the vessel which is to the windward shall keep out of the way of the vessel which is to the leeward. A vessel which has the wind aft shall keep out of the way of the other vessel.

A sailing vessel is said to be on the starboard tack when the wind comes in on the starboard side.

Sailing vessels and vessels running under sail do not use whistle signals to indicate their course of action.

#### FOG SIGNALS

In fog, mist, falling snow, or heavy rain storms, whether by day or night, the following sound signals shall be given:

A motor vessel under way shall sound on her whistle at intervals of not more than one minute, a prolonged blast.

A sailing vessel under way shall sound on her fog horn at intervals of not more than one minute, when on the starboard tack, one blast; when on the port tack, two blasts in succession; and when with the wind abaft the beam, three blasts in succession.

A vessel when at anchor shall, at intervals of not more than one minute, ring the bell rapidly for about five seconds.

A motor vessel when towing shall, at intervals of not more than one minute, sound three blasts in succession consisting of one prolonged blast followed by two short blasts. A vessel being towed may also give this signal.

#### WHISTLE SIGNALS

A short blast of the whistle shall mean a blast of about one second's duration.

A prolonged blast of the whistle shall mean a blast of from four to six second's duration.

Steam vessels are forbidden to use "cross signals," that is, answering one whistle with two, and answering two whistles with one.

#### GENERAL PRUDENTIAL RULE

In obeying and construing these rules due regard shall be had to all dangers of navigation and collision, and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

## **Compass Pointers**

A true course is the angle a ship's track makes with the true meridian.

A magnetic course is the angle a ship's track makes with the magnetic meridian.

A compass course is the course actually shown by the ship's compass influenced by variation and deviation, if there is any.

fariation is the angle at any place between the true and magnetic meridians or the amount the needle is pulled to the right or left of true north. It is the angle measured at the place of the observer between the earth's nearest true and magnetic poles.

Deviation of the compass is the error of the compass caused by magnetic influences within the ship and is the amount that the north point of the compass needle is pulled to the right or left of magnetic north.

Compass error is the algebraic sum of variation and deviation.

The lubber's line is a fine black line painted on the inner forward side of the compass bowl. Upon installation of the compass in the ship the lubber's line is carefully aligned parallel to the fore and aft line of the ship with reference to the center of the compass card.

Compass cards are usually graduated in degrees, from 0 to 360. The card may be also marked off in 32 points, the angle between two adjacent points being 11½ degrees. Naming the 32 points of the compass starting at north and going around to the right is called "boxing the compass."

A compass deviation card is a table of remaining errors of compass deviation after the compass has been installed and deviation errors conpensated as much as possible.

Keep magnetic influences as far as possible from the compass. Wiring near the compass should have the negative and positive wires twisted together.

#### RECOMMENDED COMPASS SIZES

Length of Boat	Maximum Size
Under 25'	Compass 21/4"
25' and over	3" or 4"
35' and over	4" or 5"
50' and over	5" or 6"
75' and over	7" or over

To determine the minimum size compass for a boat, divide the length of the boat by 10, and the answer will be the number of inches diameter of the minimum size compass recommended.

#### CORRECTING A COMPASS COURSE

When applying variation to a true course to obtain a magnetic course, easterly deviation is applied to the left or subtracted.

When applying deviation to a compass course to obtain a magnetic course, westerly deviation is applied to the left or subtracted. When applying variation to a magnetic course to obtain a true course, westerly variation is applied to the left or subtracted.

# PILOTHOUSE LORE

#### KNOW YOUR SPEED

One of the first and most important things that a boat owner should do is to run his boat over an official measured course and determine his speed. Without knowing it definitely, intelligent logging on any given course is impossible. Performance estimates are often exaggerated by wishful thinking. The boat owner should know the facts as to regular cruising speed, maximum speed and speeds at various numbers of engine revolutions. The charts are generally very accurate on distances but if the owner's own idea of his speed is not definite his logging is bound to be in error that may lead to trouble sooner or later. In almost every important harbor along the coast are measured mile courses where at slack tide the new boat owner may in short order determine his speed exactly. It also pays to check every so often in case marine growth or other factors may slow the vessel down at a later date.

#### DRAFT IN FRESH AND SALT WATER

The weight of salt water is 64 lbs. and of fresh water 62.43 lbs. to the cubic foot. In passing from salt to fresh water the volume of displacement therefore increases .0251. With L equalling L.W.L. in ft., B equalling beam on L.W.L. in feet, D displace in cubic feet of salt water and X displacement in long tons, A, the increase in draft in feet equals 1.26 times X divided by L times B. To figure increase in draft by inches, 12 A equals 15.1 times X divided by L times B.

#### SAILING STEERING ORDERS

Close Hauled-Same as "Full-and-By".

Ease the Helm-To reduce the amount of helm. Full-and-By—As close to the wind as a vessel will lay and keep her sails full.

Helm Down-To bring the vessel nearer the

Helm Up-To let the vessel go off from the wind.

Make the Course Good—When running before the wind and yawing, to manage the helm so that the vessel will deviate as much on one side of the course as on the other—the middle point being the course given to the helmsman.

Meet Her-To reverse the helm and check the swing of the vessel's head.

No Higher-Not to bring the vessel any closer to the wind.

Nothing Off-Not to allow the vessel to go any further off the wind.

Pinch Her-To put the helm down sufficiently to shudder the sails.

Rap Full—To keep away from the wind enough to make all the sails draw well.

Steady—To hold the vessel as she pointed when the order was given.

Right Rudder—To put the rudder towards the right hand or starboard side of the vessel. Left Budder—To put the rudder towards the left hand or port side of the vessel.

#### HEAVING LINES

In many cases, when a motor boat is brought correctly up to a dock, there is no need for heaving lines ashore as members of the crew can step ashore and make fast. In tidal currents, going through canals or when picking up a tow, it is quite necessary to get quick action and do it correctly. Underway the spring lines had best be stowed in the lockers, but they should be kept neatly coiled so as to be ready for instant use. Approaching a land they should be brought on deck in plenty of time so as to have everything ready. Spring lines do not need to be heavy and they will carry a long ways if heaved correctly. Half of the coil should be held in the left hand, free to run when released, and the other half held loosely in the right hand, with the heaving end and the first coils on the outside. So handled, the loops should all uncoil naturally in the air, without fouling into a knot or falling short. In picking up a tow, where a heavier line is going to be necessary, use the light spring line to heave, following with the towing line.

#### RUDDER ACTION

To an old hand, the handling and feel of a boat in steering becomes instinctive. For a beginner, who has to stop and think, however, it is well to get the facts memorized, and to know without trying that left rudder under headway turns the stern of a boat to starboard and the bow to port; the right rudder turns stern to port, bow to starboard. Backing up, left rudder turns stern to port, bow to starboard, and right rudder stern to starboard, bow to port. With insufficient headway or sternway, of course, action is often erratic.

When backing down there is a tendency of a right-handed propeller to swing the stern of a motor boat to port. This is an advantage in making portside landings but not always helpful otherwise. Power boat rudders are comparatively small, and when deprived of the propeller stream can exert little effective steering control. In some boats if it is necessary to back up any distance, it must be done by degrees, by pulling ahead as often as necessary to straighten up.

When backing down a left-handed propeller has a tendency to swing the stern of a motor boat to starboard.

#### U. S. WEATHER SIGNALS

Storm Warning (a red flag, eight feet square with black center, three feet square) Red Pennant.

White Pennant (eight feet hoist and fifteen bet fly).

Signals should be read from the top of the saff downward. These signals indicate the other forecasts for the twenty-four hours commencing at 8 o'clock a. m.

The following explanation is made by the teather bureau of small craft, storm and hurgane warnings:

The Small Craft Warning—A red pennant indicates that moderately strong winds that will interfere with the safe operation of small craft are expected. No night display of small craft warnings is made.

The Northwest Storm Warning—A red pennint above a square red flag with black center displayed by day, or two red lanterns, one above the other, displayed by night, indeate the approach of a storm of marked violance with winds beginning from the northest.

The Southeast Storm Warning—A red pennint below a square red flag with black center displayed by day, or one red lantern dispayed by night, indicates the approach of a sorm of marked violence with winds beginning from the southeast.

The Southwest Storm Warning—A white panant below a square red fing with black cater displayed by day, or a white lantern blow a red lantern displayed by night, indicates the approach of a storm of marked violence with winds beginning from the southwest.

The Northwest Storm Warning—A white pennant above a square red flag with a black center displayed by day, or a white lantern above a red lantern displayed by night, indicates the approach of a storm of marked violence with winds beginning from the northwest.

flurricane, or Whole Gale Warning—Two square flags, red with black centers one above the other, displayed by day, or two red lanterns, with a white lantern between, displayed by night, indicates the approach of a tropical hurricane, or one of the extremely severe and dangerous storms which occasionally occur.

#### WIND AND SOUND

The direction of the wind is designated by the point of the compass from which it blows. All winds are caused directly or indirectly by changes in temperature. The rotation of the earth alone produces no permanent wind because the atmosphere has the same velocity of rotation as that of the portion of the earth upon which it rests, but the earth's rotation materially modifies the operation of other disturbing causes. Sound is conveyed in a very capricious way through the atmosphere. Apart from the wind, large areas of silence have been found in different directions and different distances from the signals, in some instances even when in close proximity to the sound signal. The mariner should not assume:

- That he is out of ordinary hearing distance because he fails to hear the sound.
- That because he hears a fog-signal faintly, he is a great distance away from it.

3. That he is near it because he hears

the sound plainly.

4. That the distance from and the intensity of the sound on any one occasion is a guide to him for any future occasion.

#### DETERMINING DISTANCE BY ECHO

Cruising up a narrow passage with steep cliffs on each side, in thick weather, blow a short blast on the whistle and with a stop watch or the second hand of a regular watch note the elapsed time. Say that it took 8 seconds for the sound to leave the whistle and the echo to return. That means that half of this time, or 4 seconds, was the time it took the sound to leave the vessel and reach the cliff from which the sound rebounded and another 4 seconds for the echo to reach the ship. Using the approximation of 1,000 feet per second for the speed of sound, the distance the vessel was off the cliff was 4 times 1000 feet, or approximately % of a nautical

Deg.	Feet	Deg.	Feet
Temp.	per	Temp.	per
Fahr.	Sec.	Fahr.	Sec.
-20	1074	42	1105
-18	1075	44	1106
-16	1076	46	1107
-14	1077	48	1108
-12	1078	50	1109
-10	1079	52	1110
- 8	4000	54	1111
- 6	1001	56	1112
-4	1000	58	1113
	1083	60	1114
Zero	1004	62	1115
2	1085	64	1116
4	1086	66	1117
6	1087	68	1118
8	1088	70	1119
10	1089	72	1120
12	1090	74	1121
14	1091	76	1122
16	1092	78	1123
18	1093	80	1124
20	1094	82	1125
22	1095	84	1126
24	1096	86	1127
26	1097	90	1100
28	1098	90	1129
30	1099	92	1130
32	1100	94	1131
34	1101	96	1132
36	1102	98	1133
38	1103	100	1134
		100	1100
40	1104	102	1107

# Only BENDIX DEPTH RECORDERS give you all these time-tested advantages!

# ONLY BENDIX

has 2 self-contained units, the Recorder unit which weighs as little as 40 pounds and contains all components —and the simple transducer located on the bottom of the vessel which sends and receives the signals. This means easier, cheaper installation, less service problems.

# ONLY BENDIX

gives you a choice of 3 transducer installations—for inside mounting in sea chests for both steel and wooden hulls, eliminating dry docking and other heavy expense to service transducer. Or the transducer may be mounted externally on the hull if desired.

# ONLY BENDIX

has plug-in connectors on all electrical units as well as the transducer for quick, inexpensive service. Splicing, soldering and other time-consuming operations eliminated.

# ONLY BENDIX

has a simplified scanning and drive mechanism. The simplicity of these systems gives extreme accuracy and extra long trouble-free service.

# ONLY BENDIX

gives you an economical trouble-free electronic unit. Because the system is highly efficient, drawing as little as 50 watts, less parts are used.

# ONLY BENDIX

has 3000 satisfied users.
They have caught more fish
... made more money than
with any other aid since nets
were developed. Ask any
one of them. You'll find
them in every port, coast to
coast.



offers you 5 recording models to choose from with ranges from 50 feet to 400 fathoms.

Here's the new, low cost, 50-fathom model DR-10 specially designed for owners of pleasure craft and small fishing vessels. Like all Bendix instruments, it draws a permanent record of bottom conditions—not just merely indicating them. And it can be owner-installed without even drilling a hole through the hull. This is the only low-cost RE-CORDING unit on the market. See it and other Bendix models at your dealer.

Pacific Division
Bendix Aviation Corporation

# Visibility Range

The distance at which objects are visible at sea on clear days varies, and is, in miles, about as stated below, at the elevations mentioned:

Height Above Sea Level Feet	Distance of Statute Miles	Visability Nautical Miles
5	2.96	2.55
10	4 10	3.61
20	5 00	5.11
30	7.25	6.26
40	8.37	7.23
50	0.25	8.08
60	10.25	8.85
70	11.07	9.90
80	11.83	10.22
90	12.55	10.84
100	13.23	11.43
120	14.49	12.52
150	16.20	14.00

# Knots-Miles

The statute mile is 5,280 feet. The British Admiralty knot Admiralty knot or nautical

The British Admiralty knot or managements is 6.080 feet.

The statute knot is 6.082.66 feet and is generally considered the standard. The number of feet in a statute knot is arrived at thus: The cfrcumference of the earth is divided into 360 degrees, each degree containing 60 knots or (360x60) 21.600 knots to the circumference, 21,600 divided into 131,385,456 (the number of feet in the earth's circumference) gives 6.082.66 feet, the length of a statute knot.

et,	the	leng'h	of a	statu
1	knot	equals	1.151	miles
2	knots	equal	2.303	miles.
3	knots	equal	3.454	miles.
4	knots	equal	4.606	miles.
5	knots	equal	5.757	miles.
10	knots	equal	11.515	miles.
20	knots	equal	23.030	miles.
25	knots	equal	28.787	miles.

### NCHORING RULES

- Take soundings in a strange harbor. Allow for tidal range.
- Examine all parts of ground tackle before use.
- Head into the wind or current, whichever is stronger.
- Reverse the motor and drop anchor when the vessel has sternway, keeping a tension on the line or chain until the anchor reaches bottom.
- Then pay out slowly until anchor catches smartly and then pay out scope to the required length and make fast on bitts.
- Scope should always be at least seven times the depth.
- 7. If the bottom is rocky or obstructed. use a trip line.
- 8. Now take shore bearings to fix position.
- 9. Wind strain on an anchor is relatively small. It is the sea that does the breaking out.
- 10. Every boat should carry at least two anchors. A boat that cruises considerably can well afford four anchors.
- 11. Best holding bottoms are mixtures of clay and mud. A weedy bottom won't hold. A sand bottom gives poor holding with a traditionally shaped anchor.
- 12. If using rope, serve with canvas to prevent chafe. Always dry thoroughly before stowing.

#### HOW TO FIGURE BOAT PAINTS

To figure your paint and varnish requirements:

For bottoms-Multiply the length of the boat on the waterline, by the draft and then by 3.5; divide the total by 400.

For topsides-Multiply the length of the boat over all, by the freeboard at the highest point above the waterline and then by 1.5; divide this total by 400 for bare wood and 450 for subsequent coats.

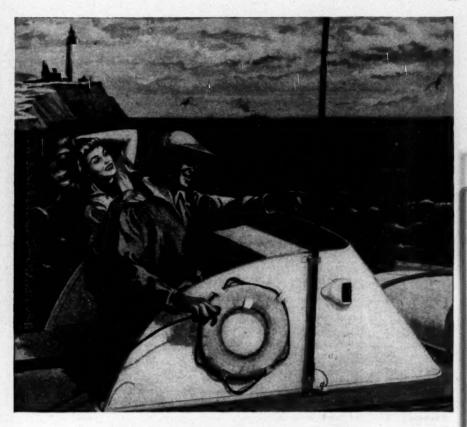
For decks-Multiply the length of the boat by the beam and then by .75; divide this total by 400 for bare wood and by 450 for subsequent coats.

For cabins—Multiply the length of the surface to be covered by the width and divide the total by 400 for bare wood and by 450 for subsequent coats.

For spars—Multiply the greatest diameter by 2.5 and then by the height in feet, figuring your total in square feet. Divide the total by 400 for bare wood and by 450 for subsequent coats.

Paint and varnish remover-One gallon of marine paint & varnish remover should soften from 200 to 250 square feet, depending upon the condition of the surface and the number of coats to be removed.

These figures above give the approximate number of gallons of paint or varnish required per coat to finish various parts of a boat. Always bear in mind that bare wood requires more paint than a painted surface.



# More Yachting Pleasure

- ▶ Merely setting the desired course and permitting the Sperry Magnetic Compass Pilot to take over in open waters provides a method of steering that gives new meaning to a pleasure cruise. For it is a special pleasure to cruise hour on hour in all waters with the desired headings held automatically.
- ► The longer the cruise lasts, the better everyone aboard appreciates what automatic steering means in

easing the strain of manual steering . . . lightening work . . . adding to fun and relaxation time. And with the portable Remote Controller full rudder control is available from any part of the boat.

► The Magnetic Compass Pilot brings to small boats the advantages that the Sperry automatic Gyro-Pilot brings to larger craft. Like all Sperry products, it is backed by Sperry's world-wide service organization. Our nearest district office will be happy to give you additional information.

SPERRY GYROSCOPE COMPANY

# When and Where To Fly Flags

Plag	When Flown	Motor Boat with Bow and Stern Staffs Only	Motor Boat with Bow and Stern Staffs and Signal Mast	Motor Boat With 2 Masts
Yacht Ensign	8 a.m. to sundown	Aft.	Aft.	Aft.
Club Pennant	8 a.m. to sundown	Bow at anchor	Bow.	Foremast.
Private Signal	8 a.m. to sundown	Bow underway	Masthead.	Mainmast.
lag Officer's Flag.	Day and night when in com- mission.		In place of Private Signal or Night Pennant.	In place of Private Signal.
leek	At anchor on Sun- days and holidays and 8 a.m. to sun- down.			Jack staff.
absent Flag	During daylight during absence of owner from boat.		Starboard yard- arm.	Starboard main yardarm.
uest Flag	During daylight when owner is ab- sent but guests are on board.		Starboard yard- arm.	Starboard main yardarm.
wner's Meal Flag	During daylight during meal hours of owner, when at anchor.		Starboard yard- arm.	Starboard main yardarm.
rew's Meal Pennant	During daylight during meal hours of crew when at anchor.			Port fore yard- arm.
light Pennant	From sundown to 8 a.m.		Masthead except when on flag of- ficer's boats.	Main masthead except on flag of- ficer's boats when night pennant is flown at foremast head.
Burch Flag	During divine ser- vice on board.	Over ensign.	Over ensign.	Over ensign.

Plag	When Flown	Staff With Yardarm	Staff With Gaff	Staff With Gaff and Yardarm or Spreader
American Ensign*	8 a.m. to sundown	Starboard yard- arm.	Gaff.	Gaff.
Club Pennant	8 a.m. to sundown	Masthead.	Masthead.	Masthead.
Officers Flag	8 a.m. to sundown during presence of flag officer on grounds or at an- chorage.			Port yardarm.
Jack	8 a.m. to sundown Sundays and holi- days only.	Port yardarm.		Starboard yard

<sup>(1)—</sup>Except on Sundays and Holidays.
\*Note—The American National ensign and not the yacht ensign should be flown.

# SELECT FUELS and LUBRICANTS TO FIT YOUR NEEDS

Union Oil's full line of marine products is designed for specific jobs

76 WHITE GASOLINE assures you economical operation, quick starting and full power. It's a clear, unleaded gasoline, designed especially for small craft.

7600 GRADE 80 GASOLINE is Union Oil's finest. If you own a high-compression engine, try 7600 Grade 80 for smooth, dependable performance and maximum power.

DIESOL meets the most rigid requirements of your Diesel equipment. It's a pure, wholly-distilled Diesel fuel, carefully controlled from refinery to dock.

TRITON OIL fully protects your gasoline-powered craft. Special compounds have been added to the rich, pure 100% paraffin-base stock to retard acidity, sludging and corrosion.

TSX, THE FAMOUS PURPLE OIL, is the answer to your severe lubrication problems. Compounded with an outstanding combination of additives, T5X is ideal for Diesel engines.

You can rely on these Union Oil marine products...and on the men who serve you at any one of the convenient Union Oil marine docks from Alaska to Panama.\* Next time, tie up at the sign of the 76.

\*Union Oil marine products also available in most principal barbors along the West Coast of Central and South America and in the Far East.



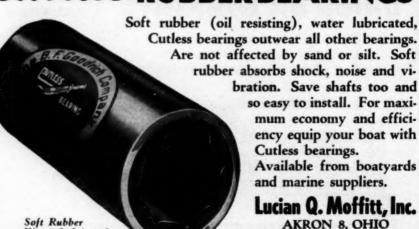


# When and Where To Fly Flags

#### SAIL AND AUXILIARY BOATS

Flag	When Flown	Sloops and Cutters	Yawls & Ketches	Schooner of Two or More Masts	
Yacht Ensign	8 A. M. to Sundown	At Anchor:—Stern Staff Under Power:—Stern Staff Under Sail:—Main Peak	—Stern Staff —Stern Staff —Mizzen Peak	—Stern Staff —Stern Staff —After Peak	
Club Pennant	8 A. M. to Sundown	At Anchor:—Masthead	Main Masthead	AT ANCHOR Fore Masthead	
Private Signal	8 A. M. to Sundown	Underway:—Masthead	Mizzen Masthead	Main Masthead	
Flag Officers' Flag	Day & Night	In Place of Private Signal	In Place of Private Signal	In Place of Private Signal  AT ANCHOR:— Bow Staff or Forestay UNDERWAY:— Fore Mesthead or Forward Star- board Shroud	
Foreign National Flag	8 A. M. to Sundown	At Anchor:—Forestay Underway:—Forestay or Forward Starboard Shroud One-Third Mast Height	—Forestay —Forestay or Forward Starboard Shroud One-Third Mast Height		





Engineers and National Distributors

Water Lubricated

Propeller Shaft Bearing

# NAVIGATION WRINKLES

#### CROSS BEARINGS

The most popular method of plotting the position of a ship is by cross bearings of two known objects. To fix the ship's position by this method, take the compass bearing of two known objects whose positions are accurately shown on the chart and whose bearings taken from the ship differ as nearly as possible by 90 degrees.

Take these bearings by sight vanes or a pelorus over compass or by a pelorus on the wing of the bridge or in the pilot house. Take them in rapid succession and note the time they were taken. The bearings should be taken when the ship is right on her course.

Correct these observed bearings for the compass error (that is for variation and deviation). Your bearings are then true and taken off the true compass rose on the chart and plotted. Where these two lines intersect is the position of the ship at the time of taking the bearings.

It will not always be possible to select two objects whose bearings differ about 90 degrees. Any other differences may be used but be sure that the angle between the bearings is not very sharp or obtuse.

# THE FOUR POINT BEARING METHOD

When proceeding on a straight course passing different known objects, the most commonly used method of finding the distance the object was passed abeam is the four point method. A bearing of the object is taken when it is four points (or 45 degrees) off the bow and the time is noted and if a vessel has a patent log, the log is read. When the object bears abeam, the time is again noted and if there is one, the log is read. The time elapsed between the bearings give the amount of distance run between the object was passed when abeam. This distance may be found if a vessel is equipped with a log by the difference between the two log readings which will

be the distance the object was passed when abeam, providing your log is accurate.

#### THE SEVEN TENTHS RULE

The Seven Tenths Rule is to take 7/10 of the distance run between the bearing of an object when two points off the bow and the second bearing when it bears four points off the bow seventenths of the distance run between the two bearings will give the distance the object will be passed when abeam.

#### 261/2° TO 45° OFF BOW BEARINGS

The distance run between an object bearing 26½ degrees off the bow and when it bears 45 degrees off the bow, is the distance the object will be passed when abeam.

## FROM ABEAM TO ON YOUR QUARTER

Suppose you were piloting along the coast and you sighted a light, through the rain or other thick weather, when it was abeam. Note the time and the log reading, and if possible, take a sight of the light when it bears four points abaft the beam. The distance run between the two bearings will be the distance the light was passed when abeam. This is the same as a four point bearing taken off the bow, only the abeam bearing is taken first.

#### LAYING A COURSE FOR STEERING

To determine a course from one point to another, place the edge of a parallel ruler on the two points, then walk the parallel ruler to the nearest compass rose until the edge of the ruler is directly over the center point of the compass rose. The course may then be read on the outer edge of the compass rose where the edge of the ruler rests and in the direction desired.

The outer compass rose gives true courses and the inner compass rose gives magnetic courses.

#### LOCATION ABOARD SHIP

Looking toward the bow or head of a vessel the left-hand side is port; right-hand side is starboard.



## \* FLAGS OF THE USPS \*







CHIEF COMMANDER



THE ENSIGN



VICE COMMANDER



FLAG LIEUTENANT USPS



REAR AND DISTRICT COMMANDERS



AIDES TO THE CHIEF COMMANDER



STAFF COMMANDERS



DISTRICT STAFF CAPTAINS : SECY. AND TREAS.



DISTRICT AIDES



COMMANDER



LIEUTENANT COMMANDER



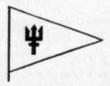
FIRST LIEUTENANT SECY. AND TREAS.



SENIOR LIEUTENANT



FLAG LIEUTENANT



LIEUTENANT

The above plates are for general illustrative purposes only. The dimensions and designs of the tridents and other insignia are not necessarily to scale. See official design and dimensions printed elsewhere in the Constitution and By-Laws.



## United States Power Squadrons

The objects of the United States Power Squadrons are to establish a high standard of skill in the handling and navigation of yachts, to encourage the study of the science of navigation, to cooperate with the agencies of the United States Government charged with the enforcement of the laws and regulations relating to navigation and to stimulate interest in activities which will tend to the upbuilding of our Navy, Coast Guard and Merchant Marine.

The United States Power Squadrons, established in 1914, now have more than 15,000 members of 112 local squadrons in 16 districts which conduct classes in piloting without charge. For information on classes consult the Chairman of the Local Board of Admissions.

A. N. Clifton, Chief Commander
Herbert R. Prior, Executive Vice-Commander211 Gramercy Pl., Glenn Rock, N. J.
J. C. Talbot, Vice Commander, SecretaryP.O. Box 510, Englewood 6, N. J.
Fred A. Memmer, Rear Commander, Public Relations. 42 Murray St., Flushing, N. Y.
John H. Stevenson, Flag Lieutenant

#### **DISTRICT 16**

Jerome L. Fritsche, District Commander	3609 Colby Ave., Everett, Wash.
Richard G. McCann, Staff Captain	3010-11th Ave. W., Seattle 99, Wash.
Everitt Landon, Staff Captain	Tacoma, Wash.
Allen C. Blair, Secretary-Treasurer	3942 W. Barrett St., Seattle 99, Wash.
Rutherford B. Hayes, Public Relations	323 County-City Bldg., Seattle 4, Wash.

#### EVERETT POWER SQUADRON

Joseph J. Murphy, Commander	424 Laurel Drive, Everett, Wash.
Dr. Edwin B. Chase, Lieutenant Commander	Rt. 5, Mukilteo Blvd., Everett, Wash.
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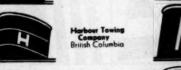
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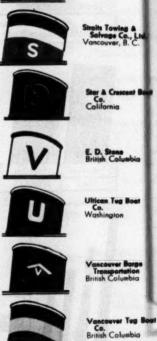




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British Columbia

#### BUOYAGE OF THE UNITED STATES

#### COLOR, SHAPE AND LIGHT CHARACTERISTICS IN RELATION TO LOCATION AND USE Note: Where the terms PORT & STARBOARD are used they are as seen by a ve proceeding from segward. For complete details see introduction, LIGHT LIST.

I. LIGHTED BUOYS:

These buoys have no shape characteristic.
Painting, colors and numbering; same as unlighted buoys. (see 11 below)

- Painting, colors and numbering; same as untignied outlys. (see 11 delaw).

  LIGHT COLORS:

  (a) RED lights are used only on STARBOARD tide of channels.

  (b) GREEN lights are used only on PORT side of channels.

  (c) WHITE lights may be used on either side of channels and are always used on MID-CHANNEL (vertical striped) buoys.

  (d) WHITE, RED or GREEN lights may be used on buoys marking JUNCTIONS, MIDDLEGROUNDS or OBSTRUCTIONS which may be passed on either side, as follows:

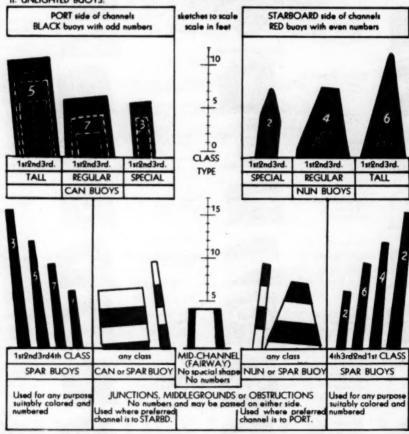
  WHITE, unless desired to show a preferred channel.

  RED if preferred channel is to PORT.

  GREEN if preferred channel is to STARBOARD.

- LIGHT PERIODS:
  (a) On SOLID COLOR BUOYS (marking the sides of channels) flashes or occultations occur at regular
  - (b) On HORIZONTAL BANDED BUOYS (marking JUNCTIONS, MIDDLEGROUNDS or OBSTRUCTIONS which may be passed on either side) only the interrupted quick flash is used, thus:
  - (c) On buoys where it is desired to show the need of particular caution as at important turns, etc., the quick flash (not less than 60 fl. per min.) is used, thus:
- (d) On VERTICAL STRIPED BUOYS (marking mid-channel or fairway) WHITE lights showing groups of short-long flashes are used, thus:

#### II. UNLIGHTED BUOYS:



#### III. SPECIAL PURPOSE BUOYS:

(a) QUARANTINE buoys—YELLOW
(b) ANCHORAGE buoys—WHITE
(c) DREDGING buoys—WHITE, GREEN TOP
(d) BELL & GONG buoys have flat top with skeleton framework. WHISTLE buoys are usually conical.

Note: Lateral buoys conform to statutory provisions and recommendations of Intl. Marine Conference, 1889, Wash., D. C.

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Devil's Lake Yacht

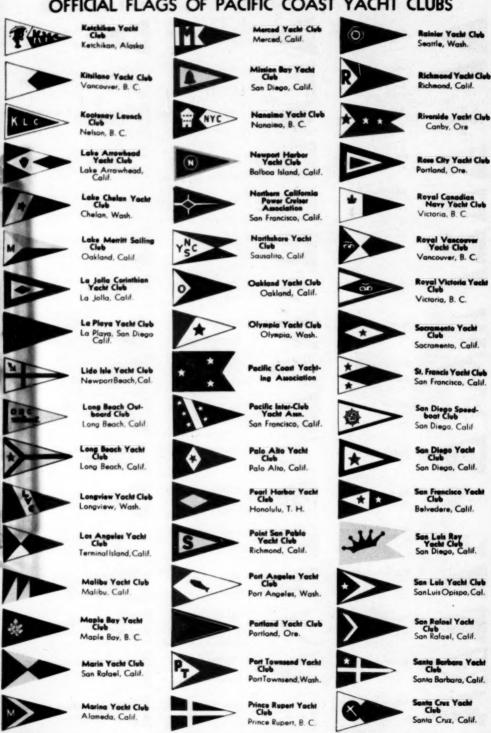
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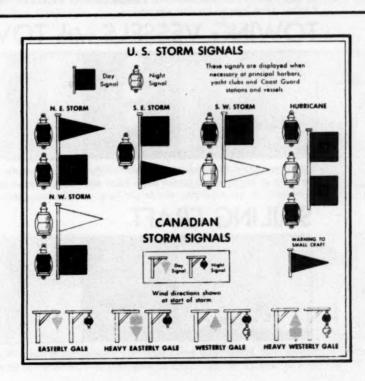
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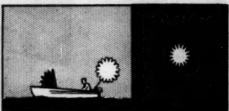
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## **ROW BOATS**

## MOTOR BOATS AMI

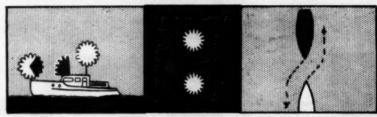


Rowing boats and all unpowered craft without sails should carry a portable white light to be shown whenever there is risk of collision.



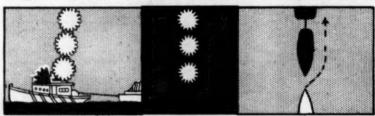
Motor boats of Class A (0-16 feet) and of Class 1 (16-26 feet) carry a combination green and red light forward, plus a white light aft.

## MOTOR BOATS: Classes II and III



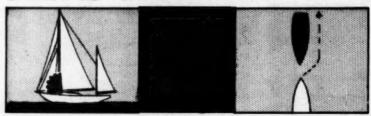
Motor boats of Class II (26-40 feet) and Class III (40-65 feet) carry a white light forward showing from right ahead to 2 points abaft the beam and visible at least 2 miles, a red light on the port side and CONTINUED ACROSS THE PAGE

## TOWING VESSELS with TOWS



Yachtsmen should approach towing vessels with caution and study their lights. The thing or vessel towed carries white lights aft. The tow vessel itself carries, in addition to her sidelights, two bright lights CONTINUED ACROSS THE PAGE

## SAILING CRAFT



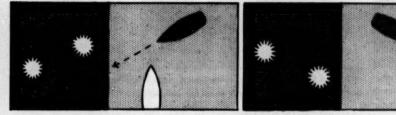
Sailing craft do not carry bow lights. They are required to carry 10 pt. red light to port, and 10 pt. green light to starboard, as CONTINUED ACROSS THE PAGE

## FISHING VESSELS

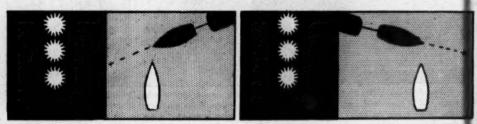




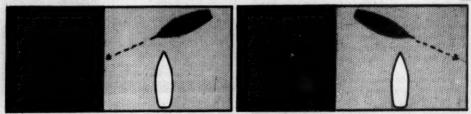
Fishing vessels carry peculiar combinations of lights, depending on whether or not they are engaged in fishing. A fishing vessel under way shows the usual lights of her class. When engaged in commercial fishing she carries the additional lights shown above. The white light, when fishing, may be carried not more than 10 feet horizontally away from the red light in the direction of the net.



a green light on the starboard, screened to show from right ahead to 2 points abaft the beam an visible at least 1 mile, a white light aft showing all around the horizon and visible at least 2 mile

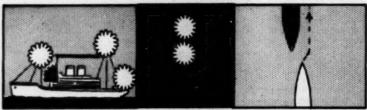


vertically, not less than 6 feet apart. When towing astern, three lights are used. Navy minesweepe at night carry two red and one white lights, arranged vertically under a topmast white light, tindicate a submerged tow.

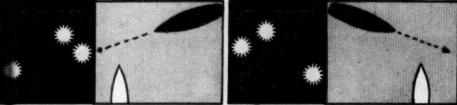


sidelights. When being overtaken by another vessel they must show a white light or flare aft. A motor-sailer carries no bow lights and no range lights.

## STEAMSHIPS (Ocean)

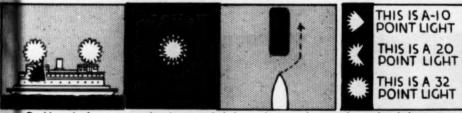


A steam vessel (which includes any vessel propelled by machinery) is required to show lights as indicated in the diagram above. As in CONTINUED BELOW



he case of other vessels shown on this in this section, same typical night situations are shown, illustrating position of the vessels and the lights seen from the pilot house of your own boat.

## **DOUBLE-ENDER FERRIES**



Double-ender ferries carry red and green side lights, and a central range of two white lights, one at each end of the vessel and at the same height—the range lights visible all around the horizon. Other the property boats carry the lights of ordinary steamers. In some localities "company lights" are shown higher than the range lights.

## NAVY PORT EXAMINATION, GATE VESSELS

Port examination vessels have the following daylight and night-time designations: during the day, a Union Jack flown from the truck when the port is open; three vertical red balls when the port is closed.

At night, three all around horizon white lights when the port is open; when closed, three red lights.

Gate vessels, or guardships, also have distinctive day and night signals for traffic control. A full description of signals applying to a particular harbor entrance or restricted area should be secured by reference to "Notices to Mariners" or local Captain of the Port.



A Navy port examination vessel shows three red lights arranged vertically six feet apart to indicate that the port is closed—three white lights when the port is open.



#### RULES ~ OPERATION ~ CALL LETTERS

#### Station and Operator's Licenses

An operator's license and a "ship station" license, the latter covering equipment, frequencies and call letters, are required from the Federal Communications Commission in order to operate a marine radiotelephone.

It is no longer necessary to take an examination to obtain an operator's license which, although not authorizing the holder to make adjustments and repairs of the equipment, is valid for the normal operation of the station. This type of operator license may now be obtained by "declaration." It is only necessary that the applicant be a citizen of the United States and study a small pamphlet of rules and regulations which he may obtain at any F.C.C. field office. He then makes a personal or mailed application to such office on the necessary forms which are submitted to him. His "Restricted operator's license, called Radiotelephone Operator Permit" then given or mailed to him.

The application blank for a ship radiotelephone license is also obtainable from the nearest F.C.C. office. It should be filled out in detail, signed and notarized and mailed to the Federal Communications Commission, Washington 25, D. C.

This station license must be posted near the transmitter of the ship.

#### **Penalties for Violations**

It is general knowledge that the entire frequency spectrum in the United States is relatively congested. The Federal Communications Commission has announced that beginning March 7, 1949, F.C.C. monitoring stations and F.C.C. engineers actually assigned on board ship will participate in observing operations in order to enforce proper use of

the frequencies 2638 and 2738 kc and the restricted Government frequency 2670 kc. Offending stations will be tracked down, even though they may not identify themselves on the radio channel concerned. F.C.C. engineers will then board these ships, both in port and at sea, and serve such papers as deemed appropriate.

The Communications Act of 1934, as amended, provides severe penalties which may be invoked if violations are found.

The most frequently-observed violations were:

- 1. The causing of harmful interference by failure of operators to observe the provisions of Rule 8.52 to monitor (listen) on the frequency to be used prior to transmission thereon, in order to determine whether transmission by the station will interfere with communication already in progress.
- 2. Failure to comply with basic regulations requiring that each station properly identify itself at the beginning and upon completion of each series of transmissions constituting a complete communication (conversation) carried on by such station.
- 3. The causing of unnecessary transmissions by requesting repetitions from other ship stations of weather reports, due to failure to intercept the transmission of such reports directly from coastal harbor stations.
- 4. Failure to comply with the provisions of Rule 8.95(a) which limits the use of the frequency 2738 kc solely to distress and safety communications and to communications relating directly to the operation and business of the ship, subject to the priority of communications designated by Rule 8.42.
- Rule 8.42.

  5. Failure to comply with the provisions of Rule 8.95(b) which limits the use of the frequency 2638 kc primarily to the safety of navigation and to the ship's business. While the exchange of other communications on this frequency is authorized upon the express condition that interference shall not be caused to the primary use of this frequency, many stations are disregarding the primary use of the frequency in attempting to handle other communications.

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SMALL RADAR Model CR-103

RADIOMARINE'S record of dependable performance extends back over a quarter of a century. Dependability ... long life ... simplicity of operation and low-cost upkeep . . . these are the rigidly maintained characteristics of all radio-electronic equipment made by Radiomarine.



#### MODEL ET-8037 30-watt, 6-channel, 2-way Radiotelephone

Operates from 12-, 32- or 110-volt D. C. supply. In wide use aboard small constwise vessels, tugs, trawlers and pleasure craft.



#### MODEL ET-8012-D 75-watt, 10-channel, 2-way Radiotelephone

Requires 32- or 110-volt D. C. power supply. Ideal for oceangoing vessels, river and lake ships, tugs, trawlers, and large pleasure craft. Remote control, from any point aboard ship, is optional.



#### DIRECT-READING LORAN Model LR-8802

MODEL ET-8044

5-watt, 4-channel

Radiotelephone with

Standard Broadcast Radio





Highly sensitive and selective. easily installed where con venient. Loop may be mount-ed inside or above decks, as required. Has standard broadcast radio band also. Operates from 6, 12, 32 or 115 volts power supply.





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6. Failure to comply with the provisions of Rule 8.94 which imposes a time limitation on the use of the frequencies 2638 and 2738 kc. After any two stations have established contact on either of these frequencies the over-all period of time during which these stations taken together, may exchange transmissions shall not exceed 5 minutes in duration.

After completion of an exchange of transmissions, as limited above, neither of these two frequencies shall again be used for communication between the same two stations until 15 minutes have elapsed. Cross frequency communications, where one station using one of these frequencies communicates with the second station which uses the other frequency, is prohibited. However, the above limitations do not apply to the handling of distress or emergency communications.

- 7. Use of the frequency 2870. This frequency is assigned for use by stations of the United States Coast Guard and is not available for use by nongovernment ship stations. However, the Coast Guard maintains a listening watch on this frequency for distress calls and in the event of actual distress a ship may use 2870 kc to the Coast Guard in order to obtain help.
- 8. Failure to maintain equipment in proper adjustment as required by Rules 8.108 and 8.129. Maladjustments of a radiotelephone transmitter may produce radiation outside the authorized communication channel and frequently results in improper modulation which, in turn, causes unnecessary repeating of transmissions and interference.

#### Alaska: U. S. Signal Corps Facilities

Shipowners or lessees contemplating operation in Alaskan waters should inform the nearest office of the Alaska Communication System when radiotelephone equipment has been installed on their ships, as this will permit the A.C.S. to expedite the handling of the ship's radiotelephone calls and keep the shipowners informed of matters of interest regarding ship-shore telephone service. Such information should include the ship's name, home port, call letters, owner's and lessee's names, their land mailing addresses and telephone numbers and, if known, the approximate area in which operation will be conducted. Notification may also be forwarded to Commanding Officer, Alaska Communication System, 550 Federal Office Bldg., Seattle 4, Washington.

The A.C.S. maintains a continuous receiver watch on 2134 kc at its Anchorage, Ketchikan and Juneau stations. In answering calls, Anchorage uses 2980 and 2970 kc, Ketchikan 2960 and 2970, and Juneau 2894 and 2970. The second-named frequency, 2970, is used only upon request of the calling vessel. Fourteen other stations in Alaska maintain a day-time watch on 2134 kc, transmitting on 2970.

A continuous watch is maintained at Anchorage, Ketchikan and Juneau on 500 kc and a part time watch at ten other stations on 500 kc, which perm.ts dependable contact for ships in Alaskan waters at all times.

#### How to Radiophone the Coast Guard

Small craft not equipped to transmit radio signals on 500 kc are authorized to use 2670 kc for making distress calls only. All Coast Guard radio stations, most lifeboat stations, cutters and larger patrol boats maintain a radio guard of 2670 kc.

Here is the way to call the USCG in distress calls for aid to the boat or persons aboard:

- 1. Speak slowly and distinctly into the microphone.
- 2. Make your call: "Coast Guard, this is (name of your vessel, call letters and description of your trouble, your position, course, speed, type of assistance required, such as removal of persons in danger, tow to nearest safe anchorage, etc.)"
- 3. After making your distress call, listen for the Coast Guard reply on 2670 ke.
- 4. It is better for the Coast Guard to maintain direct contact with the vessel in distress, and every effort should be made to establish this contact rather than a contact through another vessel.
- 5. The facilities of the Pacific Telephone & Telegraph Company's ship telephone service are available for distress calls. The company's stations will forward distress calls and messages to the appropriate Coast Guard office.
- 6. If the condition which caused you to call should moderate, or render ald unnecessary, be sure to notify the Coast Guard so that its vessel or aircraft under way to you may be diverted.

#### Ship Telephone Service

Ship telephone service, through the facilities of the Pacific Telephone & Telegraph Company, provides a two-way telephone communication service between a telephone on land and a boat equipped with a suitable radiotelephone.

Through the telephone company's land radiotelephone stations communication between two boats can also be carried on.

The service has been provided to meet the requirements of ocean-going vessels as well as coastal and harbor craft such as yachts, fishing vessels, tugs, when within range of a telephone company's land radiotelephone station. It is available to all types of vessels 24 hours a day. The ship telephone service facilities of the Pacific Telephone & Telegraph Co. include six shore stations on the Pacific Coast. These are connected by the telephone company's land wire facilities to centrally located long distance switchboards where the telephone operators establish connections to telephones in the local service areas or to long distance points.

Land radiotelephone stations located on the Pacific Coast for rendering this service are:

	tion Call	Vessel Calls on	On
	Letters	Frequency	Frequency
Seattle, Wash.	KOW	2126 kc	2522 ke
Astoria, Ore.	KFX	2206 kc	2598 kc
Portland, Ore.	KQX	2206 kc	2598 kc
Eureka, Calif.	KOE	2110 ke	2506 kc
San Francisco, Calif.	KLH	2110 kc	2506 kc
San Pedro, Calif.	KOU	2174 ke	2566 ke

Any vessel which is equipped with radiotelephone equipment, properly licensed by the Federal Communications Commission for operation of a radio station, is eligible for the service and may obtain it by application to the nearest business office of the Pacific Telephone and Telegraph Company.

A similar coastal harbor service is available in British Columbia waters as follows:

Tel. Co. Station	Vessel Calls on Frequency	Vessel Receives on Frequency		
Vancouver	2182 ke	2538 ke		
Vancouver	2142 ke	2558 ke		
Vancouver	5555 ke	5420 ke		
Vancouver	156.93 me	161.61 mc		
Prince Rupert	2166 kc	2590 ke		

Additional information may be obtained from the Northwest Telephone Company, 768 Seymour Street, Vancouver, B. C.

#### Classes of Service

"General Service" is recommended for random calls. It provides for connection, through the Pacific Telephone & Telegraph Company's land radiotelephone station, between any telephone on land and a vessel, or between two vessels. Calls from telephones on land are routed via the company's radiotelephone station which is nearest to a vessel's last known position.

"Dispatching Service" is recommended principally for commercial vessel operators who find that their communication requirements are principally between



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New 1951 Model of America's finest radiotelephone

30-40 watts Actual Antenna Power.
Complete Indication of Performance.
Full Output under All Conditions.
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## PAR-fone "88" →

#### **Value Plus - Real Performance**

Output and modulation indication.

10 watts at one-third of tube rating.

Compact—slightly larger than this page.

Dynamotor power supply.

## PAN AMERICAN RADIO CORPORATION

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# How to profit most from ship telephone service

Two tips to help you enjoy even better ship-shore service... to make it easier for you to receive calls which mean more business, more safety and comfort at sea—

- Make it a practice to call ashore regularly each day to see if any calls are being held for you.
- Tell those ashore who have occasion to call you the best times to reach you—when you'll be listening.

For extra convenience, install selective signalling...and operators will dial you directly!

To get this free booklet, call or write Pacific Telephone in your nearest large port city.



Pacific Telephone



their ships and a particular land telephone, such as the home office, a tug dispatcher, etc. This is a service through a designated land radiotelephone station of the telephone company between a designated dispatching office of a subscriber or alternate land telephone station and ships owned or operated by the subscriber.

Information on rates for general and dispatching service may be obtained from any of the telephone's company's business offices.

#### How to Place Calls

- 1. In making a radiotelephone call from a ship to a land telephone, listen with your radiotelephone receiver tuned to the transmitting frequency (see transmitting and receiving frequencies, above) of the telephone company's nearest coastal-harbor radiotelephone station to be sure the channel is not busy. A busy condition is indicated by hearing conversation or the conventional busy tone.
- 2. If the channel is not in use, tune your radiotelephone transmitter to the receiving frequency of the same station, and, after waiting a few seconds, announce the station you are calling, your ship's name, and call sign. Repeat the call slowly at least three times, then wait for the marine operator to answer.
- 3. When the marine operator answers, tell her the city, telephone number, and, if desired, the name of the person you are calling. In giving the position of your ship, state the latitude and longitude, or if more convenient, state the

rate area as shown on the map in your radiotelephone directory supplied by the telephone company. Proceed thereafter as directed.

4. At the end of the conversation, repeat your ship's name and call sign and announce that you are "Signing off." Turn off the transmitter.

#### How to Receive Calls

- 1. If the ship's receiver is on and tuned to the telephone company's land radiotelephone station transmitting frequency, the marine operator's voice will be heard calling the name of the ship.
- 2. If your boat is called, operate the transmitter as if to place a call. When the transmitter is ready to function, answer the marine operator by giving your boat's name and call letters.
- If your receiver is equipped for selective signalling, the marine operator will dial the telephone number assigned to your boat. When your telephone bell is heard, answer as described above.

#### Storm and Weather Broadcasts

Frequent daily broadcasts of weather information and hydrographic information are made by the various Coast Guard radio stations in California, Oregon and Washington. Hours, frequencies and nature of broadcasts are detailed in local notices to Mariners, available on request.

Weather information is likewise broadcast by the following shore stations:

Btation	Frequency	Time-PST	
Point Higgins, AlaskaNMJ	410 kc* 2698 kc	2130 & 0930 2200 & 1000	
Prince Rupert, B. CVAJ	1630 kc	2230	
Alert Bay, B. CVAF	1630 kc	2100	
Vancouver, B. C	2538 kc 2558 kc	2030 2030	
Westport, WashNMW	425 ke* 2698 ke	2100 & 0900 2130 & 0930	
Seattle, Wash	2522 kc	2100 & 0900	)
Astoria, OreKFX	2598 ke	2115 & 0915	,
Portland, OreKQX	2598 ke	2130 & 0930	)
Eureka, Calif	2598 ke	2100 & 0900	)
San Francisco, Calif. KLH	2506 ke	2030 & 0830	,
San Francisco, Calif	425 ke* 2698 ke	2000 & 0800 2030 & 0830	
Monterey, Calif	2698 kc	1648 & 0448	,
San Pedro, Calif	2566 kc	2000 & 0800	
Long Beach, CalifNMQ	425 ke* 2698 ke	2030 & 0830 2100 & 0900	

<sup>\*</sup> Key broadcast only (code).

Small craft and storm warnings are flown from various Coast Guard light stations, lightship stations, and lifeboat stations along the Pacific Coast.

## **British Columbia**

Ship to shore radiotelephone service is handled in British Columbia by the North-west Telephone Company. Their Vancouver station CFW transmits on three frequencies: namely, 2538 kc, which is assigned for fishboat use; 2558 kc, assigned for use of tugboats, coastal vessels, yachts, etc.; and 5420 kc, common to all craft and used mostly when vessels are over 200 miles from the station. The associated frequencies on the ship's transmitter are 2182, 2142 and 5555 kc.

To place a call listen in on 2538, 2558 or 5420 kc and, if the channel is not busy, call Vancouver and proceed thereafter as directed by the operator. Calls may be placed to CFW at any time. To obviate the necessity of vessels monitoring continuously, CFW maintains clearance periods at 7:30, 9:00 and 11:00 a. m.;

1:15, 4:15, 6:30 and 9:45 p. m. when calls held for vessels will be broadcast. Listen in on your assigned frequency at these times.

Station CFW4 at Prince Rupert transmits on 2590 kc and receives on 2166 kc. They operate on a 24 hour basis, but maintain no clearance periods.

Ship to ship calls may be made over the free frequencies of 1630 and 2318 kc.

Distress calls. Upon the receipt of a distress call, CFW will connect the vessel immediately with the number called. If no number is specified, an attempt will be made to contact the owners of the vessel or the operators ashore, and also Point Grey wireless station. On instructions from the vessel, both ship-to-shore channels will be cleared and the distress message broadcast as instructed from the vessel.

Weather reports covering all coastal areas are broadcast from CFW twice daily at 8:30 a.m. and 8:30 p.m.

## CALL LETTERS

For a number of years PACIFIC MOTOR BOAT Handbook has published the radiotelephone listings of Pacific Coast boats as a service to this fast-growing means of communications. However, the telephone companies have recently undertaken to provide up-to-date lists of their subscribers' call letters. Lists of marine radiotelephone users may be obtained from the North-West Telephone Company in British Columbia and from Pacific Tajeophone & Telegraph Company offices in Washington, Oregon, California.

#### **NAVIGATION EQUIPMENT!**

Apelco Radiotelephones and NW Apelco Direction Finders

Submarine Signal—Cadet and Fathometer Jr. Sounders

Sard, Bausch & Lomb and Imported Binoculars

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Enjoy the convenience of our free parking lot while you select navigation equipment and charts.

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## NORTHERN RADIOPHONES



20, 40, 50 75, 100 150 and 250 Watts

MADE BY THE OLDEST MANUFACTURERS OF RADIO-TELEPHONES ON THE COAST

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Write, Wire or Phone

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## It's LESS Expensive THIS Way!

What good is a boating budget when the *boat* is gone . . . stolen, wrecked, destroyed by fire or storm?

What good is a budget if stranding, storm or collision causes damage that explodes that budget in a flood of bills for repairs and refitting?

What good is a budget if a waterway accident piles up a judgment against you, fouling your finances and marring your cruising pleasure? Protect your boating budget—protect your boat! A Yacht Insurance Policy, written through Marine Office of America, will give you sound and dependable protection—protection backed by the strength and security of its seven outstanding member companies.

Yes—there is no stronger, no surer Yacht Insurance protection than that provided through Marine Office of America! Your agent or broker can supply it—see him or call him, today!



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-OFFICES-

140 Sansome Street
San Francisco 4, Calif.

530 West Sixth Street
Los Angeles 14, Calif.

530 West Sixth Street
Stockton 5, Calif.

HOME OFFICE: 116 John Street, New York 38, New York

## PREVENTION OF EXPLOSION AND FIRE ON MOTOR BOATS

Explosions on gasoline boats involving loss of life and heavy loss of property have rendered it necessary to take some action in regard to their prevention.

Three things are vital to this.

First, that not a drop of gasoline or any gasoline vapor be allowed to get into the hull outside of tanks, engines and

Gasoline vapor is heavier than air and even in filling a tank on deck, the vapor will flow down any open hatch or com-panionway and sink to the floor and bilge and remain there unless removed.

Second, that no spark or flame, including oil lanterns, be allowed in engine

room that can be avoided.

Third, that all engine compartments be so ventilated that all vapors or gases which may have gathered there be quickly removed.

After examination of many boats and doing everything possible to avoid unnecessary expense, the matter was taken up with The National Board of Fire Underwriters and the following have been considered necessary by their engineers.

That all filling pipes to gasoline tanks must be on outer deck, outside of cockpit and coamings, so that any overflow will run overboard, and that filling pipes run to the bottom of tank.

That all vent pipes to gasoline tanks should lead to outside of hull.

That all tanks should have an indicating device, but such device shall not consist of glass gages other than those of bullseye type, nor of petcocks.

That all outlets for drawing gasoline for any purpose whatsoever be prohibit-

ed in engine room.

That all carburetors should have Underwriters' Laboratories approved backfire flame deflectors, to prevent explo-

sion from backfire.

That all switches and fuses be placed outside of engine compartment. On large boats where it is desired to have all equipment in the engine room, switches and fuses and other spark-emitting devices should be enclosed and located at least 4 feet above the floor.

That all electric light and auxiliary plant tanks have filling pipes run to outer deck same as main tanks, or en-gines piped directly to main gasoline tanks. Air cooled motors under deck are

not approved.

That drip collectors be well fastened

under all carburetors. Openings should be properly screened with 40 mesh brass. Carburetors of the upturned horn type similar to the Zenith or Stromberg, with closed drip pan connected to the lowest point of air horn are recommended. A venturi pipe should lead from the bottom of all drip pans to the manifold, so as to keep these pans, as nearly as possible, free from gasoline at all times.

That there be a cut-off valve at each tank to be operated from the deck, with another valve at each carburetor.

That 3" or larger ventilating pipes running down all the way to bilges be placed in all four corners of engine room, so as to induce a thorough scouring draft through bilges and remove any explosive gases that might lie there.

These should be made so that they CANNOT be closed—the little water that would enter in a heavy sea would be negligible in comparison with the dan-

ger of confined gasoline vapors.

At least one of these pipes should be provided with an electric fan to remove gases from the bilges. If suction fan is used, motor must be of explosion-proof type or located outside of vent duct. These fans should be run for at least ten minutes before starting and after shutting down engine. Where boats are so small as to make the electric fans impracticable, the same pipes should be installed with the fans omitted.

#### NO VENTILATION ABOVE, EITHER AT DECK OR SIDES WILL REMOVE THESE VAPORS

In still smaller boats already built where the installation of the above ventilating pipes is impossible, an opening of not less than 36 square inches should be cut close down to the cabin floor in both forward and after partitions of en-gine room to induce a draught, so that the heavy vapors that lie in the bilges may be forced out. A ventilating cowl or port both in the forward and after ends of the boat should always be open, so that a draught be made through the openings in the fore and aft engine compartment partitions.

Gasoline shall not be used for wiping down engines, or machinery, or cleaning

Gasoline stoves or lamps shall never be used on boats.

#### PREVENTION OF EXPLOSION IN FILLING GASOLINE TANKS

ON YACHTS

Owing to the large number of explosions that have occurred during the last few years on gasoline powered boats just after filling tanks, involving not only a heavy monetary loss but also many lives—

To stop these explosions, it is strongly recommended that before tanks are opened or gasoline brought on board—

All engines, motors, fans and other spark-producing devices be shut down —

That all galley fires be put out -

That all ports, windows, doors and hatches be closed —

That no smoking be permitted while filling -

That in filling tanks, no gasoline whatsoever (not one drop) be allowed to get below deck except into tanks—neglect of this has cost many lives—

Fill with hose—keep nozzle in contact with fill pipe. If cans must be used, see that there is a metal to metal contact between cans, funnels, and fill pipes. Static electric sparks may occur in filling operations if this is not done.

Grounding nozzle of hose or can is necessary if all explosions are to be prevented.

In filling gasoline tanks, etc., allow 1% of cubic air space for each 15 degrees Fahrenheit for expansion. Viz: 90 degrees would need 6% of air space, 130 degrees would need 8.66% or app. 9%.

That after filling hose and, or, cans have been removed from boat, any spilling on deck be wiped up and all ports, windows, doors and hatches be opened ind kept open if possible for at least five minutes before any fan, motor, or engine is started or stove lighted.

Approved type carbon-dioxide or automatic carbon-tetrachloride extinguishers recommended.

#### BILGE VENTILATION Vitally Important

Losses having occurred recently from inadequate bilge ventilation, that is, the use of 3" or smaller ventilating pipes in boats where from their size, much larger pipes should have been used under the National Board of Fire Underwriters' Regulations of October 7, 1929, the matter was taken up after careful consideration, the table given below was drawn up as the minimum requirements of sizes which might be used.

Boat

Ventilating Pipes (2 forward and 2 aft in engine room, piped to

	buges
20' and under	3"
25'	31/4"
30'	4"
35'	41/4"
45'	5"
50'	514"
60'	6"

As a large proportion of losses occur while the boat is at rest and not under way, and as many boats lie at plers or floats and so are often stern to the wind, it follows that to give good ventilation to the bilge at all times, the after ventilators must be fully equal in size to the forward ones.

Experience has proved that these ventilating pipes have been one of the greatest factors in preventing losses and it follows that the more natural draft ventilation given, i.e., the larger the ventilating pipes, the safer the boat.

Further, that all stoves be well fastened down and thoroughly insulated and where alcohol, kerosene or fuel oil is used, especially in wet priming, a catch pan not less than ¾" deep shall be secured inside the frame of the stove. Where liquified or compressed gas is used for cooking, tanks must be placed on deck.

That all pipes penetrating hull under water should be fitted with sea-cocks.

That there be a hand bilge pump large enough to take care of a heavy leak, permanently installed.

That all electric batteries be well secured and located in a well ventilated space and be provided with a protective screen to prevent any metal object being dropped on them.

That there be at least two anchors with 120' of cable for each capable of holding the boat in a heavy gale, one of which should have cable bent on at all times.

That bilges should be kept clean—free from oil and gasoline at all times—neglect of this has cost many lives.

neglect of this has cost many lives.

The majority of losses are caused by carelessness. Good housekeeping tends to safety.

to safety. Further

Further regulations covering tanks, fuel lines, carburetors, motor exhaust, galleys, diesel installations, and many other items are contained in the National Fire Protection Association Regulations for Motor Craft which will be sent to you upon request to the Yacht Safety Bureau, Room 1708, 21 West Street, New York 6, N. Y.

## **Marine Gas Tax Refunds**

ASOLINE tax refund procedure T varies among the Western states.

The boat owner generally has to prove non-highway use in submitting his application to the state authorities, although the procedure is not uniform.

The following information on obtaining state gasoline tax refunds has been compiled from information furnished by various tax authorities. The refunds apply to transients as well as residents.

#### **British Columbia**

Refund: 9c of a 10c tax. However, the Province has provided for the sale of non-highway gasoline for marine use, making collection of the 9c highway tax unnecessary.

Agency: Office of the Surveyor of Taxes, Victoria, B. C.

Procedure: In this Province any person may purchase gasoline specifically marked with a purple dye for certain non-highway uses. Such marked gasoline may be purchased for use in a motor beat. The refundable portion of the tax is waived at the time of the sale of such purple marked gasoline.

#### Washington .

Refund: 61/2c of the 61/2c per gallon state tax.

Agency: Liquid Fuel Tax Division, Department of Licenses, Olympia, Wash.

Procedure: First, the applicant must write for application forms. In due course, he receives a letter of instructions, an application for permit and an application for refund. The application for permit must be filled out and re-turned to Olympia, together with the required fee of 50c. The applicant then receives a permit allowing him to receive gasoline tax refunds. The permit is valid from date of issue to the following March 31.

The applicant may then apply for refund by filling out the application for refund and returning it to Olympia, to-gether with the original sales slips, clearly indicating the number of gallons purchased on each occasion, identity of the seller, and a few other details listed on the refund form. The refund will then be made.

The claim must be received within six months of the date of purchase.

#### Oregon

Refund: 6c per gallon.

Agency; Secretary of State, Salem, Ore.

Procedure: A refund application form

must be sent to the above agency, together with the original invoice or a certified copy. The application must be made within a year of the purchase.

#### Alaska

Refund: None. The territory of Alaska levies a 2c per gallon motor fuels tax. This applies to all types of oils in internal combustion engines. No refunds or exceptions are made to privately-owned motorboats.

#### California

Refund: 41/2c per gallon less 3 per cent of net sales price for California sales tax.

Agency: State Controller, the State of California, Sacramento, Calif.

Procedure: Application for refund must be made on a printed form supplied for this purpose. Forms may be secured from gasoline dealers or from the state controller. Application must be submitted to the state controller within one year from date of purchase of gasoline and must be supported by customer's invoices billed to the claimant, showing complete information regarding the sale.

#### Nevada

Refund: 51/2c per gallon.

Agency: Nevada Tax Commission, Motor Vehicle Fuel Tax Division, Carson City, Nevada.

Procedure: Full tax is refundable upon application within six months. The state law requires that the claim be accompanied by original invoices marked paid.

#### Arizona

Refund: 5c per gallon.

Agency: Gasoline Tax Refund Department, Division of Motor Vehicles, Arizona Highway Department, Phoenix, Ari-

Procedure: The user of gasoline for non-highway use must inform the seller of such use, asking for a certified invoice on each delivery. Gasoline for boat use is required by law to be colored with the state dye. The highway department fur-nishes affidavit forms to all claimants for state tax. Such affidavits are to be completely executed and supported by certified invoices, Form 577, and filed within six months of purchase.

#### Idaho

Refund: 6c per gallon.

Agency: Office of Tax Collector, Mo-

tor Fuels Division, State of Idaho, Boise, Idaho.

Procedure. An affidavit form, furnished by the department, must be filled out, witnessed and presented. Original receipted invoices must accompany the application for refund. Applications must

be made within 180 days of purchase. Total claims must be for 50 gallons or more.

Montana

Refund 6c per gallon.

Agency: Board of Equalization, State of Montana, Helena, Montana.

#### BEAUFORT SCALE

Beaufort No.	Seaman's Description of Wind	Wave Description	Mode of Estimating for Average Sail Boat	Velocity in Knots	Terms Used by U.S. Weather Bur
0	Calm	None	No headway		
1	Light	Ripples	Good steerage way with wind free	1-3	Light
2	Light breeze	Scale patterns	1-2 knots "full and by"	4-6	
3	Gentle breeze	Glassy breaks	3-4 knots "full and by"	7-10	Gentle
4	Moderate breeze	Longer waves	5-6 knots "full and by"—heels	11-16	Moderate
5	Fresh breeze	Occasional white crests	Good working breeze. Smacks heel over considerably	17-21	Fresh
6	Strong breeze	Regular white crests	Smacks shorten sail 22-27		Strong
7	Moderate gale	Heaping sea	Smacks remain in harbor; at sea, lie to	28-33	
8	Fresh gale	Foam is blown	Smacks take shelter if possible	34-40	Gale
9	Strong gale	Sea rolls	***********	41-47	
10	Whole	Sea churns white	***********	48-55	Whole
11	Storm	Chaotic sea		56-65	gale
12	Hurricane	!!!	No canvas can stand Above 65 Hu		Hurricane

#### READING THE BAROMETER

Barometer Rising Clearing, high winds and cool wave.

29.2 to 29.6 inches.
29.6 to 29.9 inches.
29.9 to 30.2 inches.
30.2 to 30.5 inches.
4 High winds, cool wave, preceded by squalls.
Fair weather, fresh winds during next 24 hours.
Fair weather and brisk winds, diminishing.
Fair weather, cooler, variable winds.

30.5 to 30.8 inches. Continued cool, clear weather, light winds. 30.8 to 31.0 inches. High winds, southeast with rain.

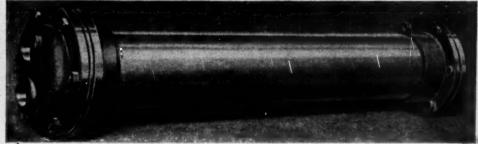
28.8 to 29.2 inches.

Barometer Falling

30.8 to 30.5 inches. Fair, warmer, followed by rain and wind.
30.5 to 30.2 inches. Approaching storm.
30.2 to 29.9 inches. Cloudy, warmer, unsettled weather.

29.9 to 29.6 inches. Unsettled weather, warmer with increasing wind.

29.6 to 29.3 inches. Squally, clearing, fair and cooler weather.
29.3 to 29.0 inches. Clearing, high winds with squalls and cooler weather.
29.0 to 28.7 inches. Stormy weather.



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from salt water corrosion and save fuel by controlled temperature fresh water cooling produced by an Alaskan Fresh Water Cooling System. Save wear on bearings with an Alaskan Oil Cooler.

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Needs no lubricant. Can be operated manually or automatically with durable, all-copper, SWAY-PROOF FLOAT which won't cause pump to cut off with sway of boat. Can't be AIR-LOCKED. Over-size, longhour motor with oil-less bearings operates on 40 watts. Hermetically sealed. Made of heavy bronze castings, pump has 105 sq. in. of extra-thick screen surface and bronze metal-lustre finish.

WRITE FOR LITERATURE

Sulton Manufacturing Porp 112 W. WILSON AVENUE NORFOLK VIRGINIA

# D COMMERCIAL PIRHTNG MOTORBOATS EQUIPMENT

Equipment	Class A 0 to less than 16 feet	Class 1 16 to less than 26 feet	Class 2 26 to less than 40 feet	Class 3 40 to not more than 65 feet
Combination light	l in fore part of boat showing board from right ahead to 2 least 1 mile.	in fore part of boat showing red to port and green to star-None board from right ahead to 2 points abart the beam. Visible at least 1 mile.		None
Port side light	None	None	1 on port side, properly screened to show red from to 2 points abaft the beam, visible at least 1 mile.	on port side, properly screened to show red from right ahead to 2 points abaft the beam, visible at least 1 mile.
Starboard side light	None	None	I on starboard side properly screened to show green from a ahead to 2 points abaft the beam. Visible at least 1 mile.	eened to show green from right
Stern light	1 bright white light aft showing	1 bright white light aft showing all around the horizon. Visible at least 2 miles.	least 2 miles.	
Bow light	None	None	1 bright white light in the fore right ahead to 2 points abaft at least 2 miles.	bright white light in the fore part of the boat showing from right ahead to 2 points abaft the beam on both sides. Visible at least 2 miles.
Whintle 2	None	ated, audible at least 1/5 mile.	1 hand or power-operated audi-	1 power-operated audible at at least 1 mile.
Bell	None	None	1 which produces, when struck, round characteristics.	, a clear bell-like tone of full
Lifesaving devices 3	1 approved life preserver or rin	1 approved life preserver or ring buoy or buoyant cushion for each person on board		1 approved life preserver or ring buoy for each person on board.
Flame arrestors	1 approved on each carburetor	of all gasoline engines installed at	1 approved on each carburetor of all gasoline engines installed after Apr. 25, 1940, except outboard motors.	d motors.
Ventilation	At least 2 ventilators with cowls or boats constructed or decked after	s or equivalent capable of removi	equivalent capable of removing gases from the bilges in engine and fuel tank compartments of Apr. 25, 1940, using gasoline or other fuel of a flashpoint less than 110° F.	e and fuel tank compartments of in 110° F.
Fire extinguishers.	1 1	or 1 1½-gallon foam or 1 4-pound oard motorboats.	1 1-quart carbon tetrachloride or 1 1½-gallon foam or 1 4-pound 2 1-quart carbon tetrachloride or 3 1-quart carbon tetrachloride or 3 1½-gallon foam or 3 4-CO <sub>2</sub> extinguisher.  CO <sub>3</sub> extinguishers.	3 1-quart carbon tetrachloride or 3 1½, gallon foam or 3 4-pound CO <sub>2</sub> extinguishers.

1 Act of Congress approved April 25, 1946.
2 Commercial flathing motorboats may carry any of these specified devices.
3 Commercial flathing motorboats may carry in lieu of this specified equipment prescribed wooden life floats.

## **Entering & Clearing Foreign Ports**

RNTERING pleasure craft and motor driven commercial boats from a foreign port, or entering a foreign port from the United States, or clearing from a foreign port to a United States port, or clearing from a United States port for a foreign port is usually a simple matter for most yachtsmen and small boat operators.

Enrolled or licensed yachts are not required to clear for foreign ports. All other documented vessels and undocumented vessels are required to clear.

However, numbered vessels under five net tons do not have to clear from the American ports of Friday Harbor and Anacertes to Canada. Neither are they required to officially enter upon their return. However, it is requested that they report out and it is necessary for them to report to Customs upon their return.

On entering the foreign port the captain and owner should report immediately to the customs and immigration authorities at the port at which entry is made, and none of the guests or crew, except the captain or owner, may leave the vessel, and then only to report its arrival to customs, until the inspector has examined the vessel and passed it.

Leaving a foreign port, if a cruising permit has been issued, this permit should be surrendered to the issuing authority. Foreign customs and immigration authorities will clarify any other restrictions to be imposed upon the boat, and requirements should be strictly followed.

Entering the United States from a foreign port, the owner or captain must report within 24 hours of the boat's arrival to the customs, and the captain should not allow guests or crew to go ashore from the boat until the customs inspector has examined the boat and baggage of the crew, etc. A report should be made to immigration authorities immediately upon arrival. Documented boats 16 gross tons or over are required to enter and file a manifest at the customs house whether or not passengers or merchandise are aboard.

American documented yachts are ex-

empt from clearance and entrance from one American port to another American port and in sailing to a foreign port. On arrival from a foreign port such arrival must be reported within 24 hours and large yachts of 16 gross tons or over regularly entered within 48 hours. Arrival may be reported by telephone but all crew, passengers and their baggage must remain on board until released by Customs.

If a yacht is going foreign and sailing from an American port when sanitary conditions are bad or contagious diseases prevail she must obtain a bill of health. This also applies again in arriving from a foreign port where the same conditions exist.

All documented yachts over 15 gross tons or undocumented yachts or pleasure boats must enter and pay entrance fees.

Vessels and airplanes entering and clearing at Friday Harbor, Wash., will not be required to pay the usual customs and immigration evertime charges for services rendered on Sundays and holidays between June 17 to September 3, from 9 a.m. to 5 p.m.

The Commissioner of Customs may issue to American yachts belonging to a regularly organized or an incorporated yacht club a commission to sail for pleasure, stating therein the exemptions and privileges enjoyed under it and shall be a token of credit to any U.S. official, and to the authorities of any foreign power, for privileges enjoyed under it. On return such yacht must enter and surrender the commission at the custom house.

The British Columbia authorities issue a craising permit which will be given upon request upon arrival at the first Canadian customs port. This allows full privileges of free entry and clearance in all B. C. waters, but must be returned to the port of issuance before departure from British Columbia.

A Canadian yacht can obtain a cruising permit in much the same manner from U. S. Customs authorities. The Canadian yacht must telephone the U. S. customs and report each movement between U. S. ports, however. Such permits may be issued for a period not to exceed six months. but must be surrendered upon departure from the last United States customs port.

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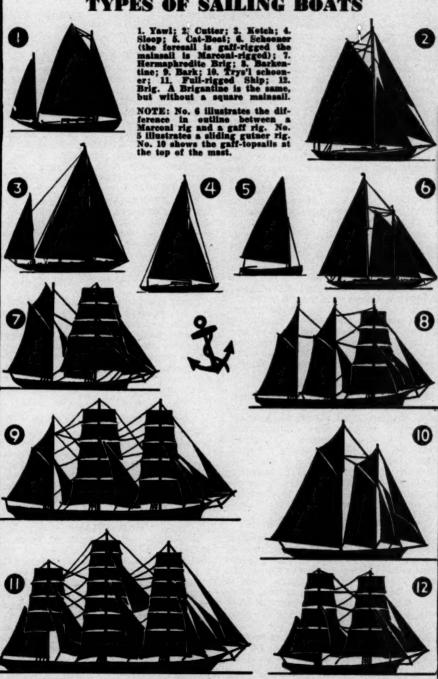
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#### **TYPES OF SAILING BOATS**



## **CHARTS**

Charts are the most important tools used in navigation. Charts include an accurate topographic survey and characteristics of the land as visible to the mariner. The hydrographic survey shows the data for the water areas. Along the Pacific Coast depths in tidal areas are shown at mean lower low water by the U. S. Coast & Geodetic Survey. Charts issued by The Canadian Hydrographic Service show soundings reduced to the lowest normal tides.

Charts, while nearly accurate, are subject to a distortion which arises from representing the curved form of the earth on a flat piece of paper. Most of the charts in general use by navigators are constructed on the Mercator projection and these charts are called Mercator Charts.

On these charts all the parallels of latitude, running true east and west, are at right angles to the meridians. The meridians, running true north and south, are parallel straight lines, and the longitude degrees are all equal. The degrees of latitude increase in length from the lowest degree of latitude at the bottom of the chart to the highest parallel at the top of the chart in the same proportion as the degrees of longitude decrease on the earth. The ship's true course appears on the chart as a straight line.

#### COMPASS ROSE

On all charts are one or more compass roses. A compass rose is the same a compass card placed on a chart. The outer ring of the compass rose hows the true compass in degrees, while inside of this ring shows the magnetic compass. In the inner or magnetic compass, the arrow points to magnetic north. The compass rose also shows the amount of variation in the location and the annual change in variation.

#### CORRECTING CHARTS

All U. S. charts are kept corrected, and the date is stamped on the face of the chart when issued by the government office. Dates on charts are on the lower margin: the new edition date is in the central position; printing dates are noted in the lower left margin; issue date is stamped in the lower right margin.

After purchase, charts should be kept corrected from the remarks in the Notices to Mariners as soon as received. It is recommended that charts of the latest issue be purchased and kept corrected up to date. Corrections can be obtained by taking them to the nearest Hydrographic Office.

#### CHART SCALES

Charts are constructed on different scales. Small scale charts covering large areas are used for offshore navigation, and all things will be shown in a small scale. Large scale charts show relatively small areas in greater detail and should be used for inshore or harbor navigation. A scale of 1:50,000 means that one unit of the chart represents 50,000 of the same units on the surface of the earth. Scales range from 1:2,500 to about 1:5,000,000.

Sailing charts are issued in scales of 1:600,000 and smaller, and are used for approaching the coast from the open ocean or for sailing between different coastwise points.

General charts, scale 1:100,000 to 1:600,000, are planned for coastwise navigation outside of outlying reefs and shoals.

Coast charts, scale 1:50,000 to 1:100,-000, are planned for inshore navigation; for entering large bays and harbors; and for navigating large inland waterways.

Harbor charts are constructed on scales larger than 1:50,000, and are for navigating in harbors, anchorage areas, and smaller waterways where the maximum detail is helpful in using these waters.

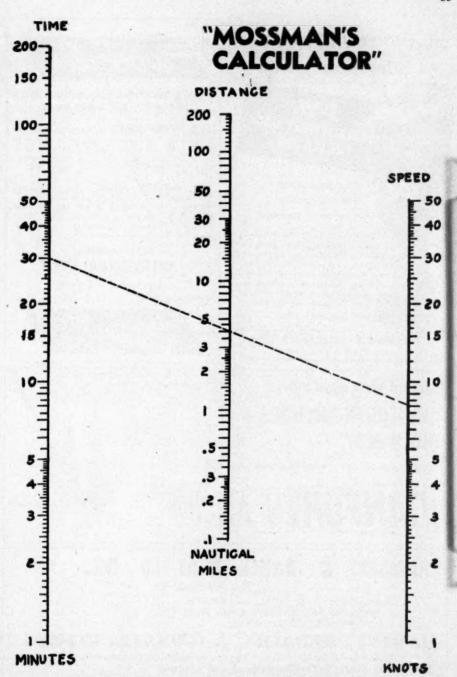
#### MINUTES OF LATITUDE

Minutes of latitude are shown on a scale on either side of the chart. A nautical mile is a minute of an average great circle of the earth or 6080.2 feet, or less 1853.25 meters. By referring to the scale on the side of the chart, distance in nautical miles may be quickly determined.

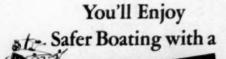
#### SOUNDINGS

Soundings, or the depth of water, is shown on a chart in fathoms or feet under the title of the chart. A fathom is a measurement of six feet. It is stated on each chart whether the soundings are in fathoms or feet. On a large scale chart where the survey is complete, the soundings are numerous.

On all coastwise charts and some other charts, a dotted line along the coast indicates that all soundings inside this line near the shore are all under a certain amount. These compare to contour lines on a topographic map.



GIVEN ANY TWO QUANTITIES of speed—distance—time problem, solve for the third by placing a straight edge on the known points on two scales and reading the unknown on the intersection of straight edge and third scale. For example, see dotted line. An 8-knot vessel will require 30 minutes to cover 4 miles, etc. Reproduced by permission of the designer.





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#### SPEED TABLE

By timing the run of a vessel over either a measured land mile course or nautical mile course, and identifying the time in minutes and seconds with the nearest time on this table, the speed of the vessel can be obtained with a high degree of accuracy. Thus, if four minutes and 11 seconds were required to run the course, the speed would be 14.343 m.p.h. or knots, as the case may be.

Sec.	1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 mia.	9 mid.	10 min.	11 min.	12 min.
0	60.000	30.000	20.000	15.000	12.000	10.000	8.571	7.500	6.667	6.000	5-455	5.00
ī	59.016	29.752	19.890	14.938	11.960	9.972	8.551	7.484	6.654	5,000	5.446	
2	58.064	29.508	19.780	14.876	11.921	9.945	8.531	7.460	6.642	5.980	5.438	4.99
3	57.143	29.268	19.672	14.815	11.881	9.917	8.511	7.453	6.630	5.970	5.430	4.97
4	56.250	29.032	19.565	14-754	11.842	9.890	8.491	7.438	6.618	5.960	5.422	4.97
	55.384	28.800	19.459	14.694	11.803	9.863	8.471	7.423	6.606	5.950	5.414	4.96
5	54-545	28.571	19.355	14.634	11.765	9.836	8.451	7.407	6.593	5.941	5.405	4.95
7	53-731	28.346	19.251	14.575	11.726	9.809	8.431	7.392	6.581	5.931	5.397 5.389	4.95
8	52.941	28.125	19.149	14.516	11.688	9.783	8.411	7-377	6.569	5.921	5.389	4.94
9	52.174	27.907	19.048	14.458	11.650	9.756	8.392	7.362	6.557	5.911	5.381	4.93
10	51.428	27.692	18.947	14.400	11.613	9.730	8.372	7.347	6.545	5.902	5.373	4.93
11	50.704	27.481	18.848	14.343	11.576	9.704	8.363	7.332	6.534	5.892	5.365	4.92
12	50.000	27.273	18.750		11.538	9.677	8.333	7.317	6.522		5-357	4.91
13	49-315	27.068	18.653	14.229	11.502	9.651	8.314	7.302	6.510	5.873	5-349	4.91
14	48.648	26.866	18.557.	14.173	11.465	9.626	8.295	7.287	6.498	5.863	5.341	4.90
15	48,000	26.667	18.461	14.118	11.429	9.600	8.276	7.273	6.486	5.854	5-333	4.89
16	47.368	26.471	18.367	14.062	11.392	9-574	8.257	7.258	6.475	5.844	5.325	4.88
17	46.753	26.277	18.274	14.008	11.356	9.549	8.238	7.243	6.463	5.835	5.318	4.87
18	46.154	26.087	18.182	13.953	11.321	9.524	8.219	7.229	6.452	5.825	5.310	4.87
19	45.570	25.899	18.090	13.900	11.285	9-499	8.200	7.214		5.806	5.294	4.86
20	45.000	25.714	18.000	13.846	11.250	9.474	8.163	7.200	6.429	5.797	5.286	4.85
	44-444	25.532	17.910	13.793	11.215	9.449	8.145	7.171	6.406	5.788	5.278	4.85
22		25.352		13.740	11.146	9.424	8.126	7.157	6.394	5.778	5.270	4.84
24	43-373	25.175	17.734	13.636	11.111	9.399	8.108	7.143	6.383	5.769	5.263	4.83
		24.828	17.561	13.585	11.077	9.351	8.090	7.129	6.372	5.760	5.255	4.83
25	42.353 41.860	24.658	17,476	13.534	-11.043	9.326	8.072	7.115	6.360	5.751	5.248	4.82
27	41.379	24.490	17.391	13.483	11.000	9.302	8.054	7.101	6.349	5.742	5.240	4.81
28	40.909	24.324	17.308	13.433	10.976	9.278	8.036	7.087	6.338	5.732	5.233	4.81
29	40.450	24.161	17.225	13.383	10.942	9.254	8.018	7.073	6.327	5.723	5.225	4.80
30	40.000	24,000	17.143	13.333	10.909	9.231	8.000	7.059	6.316	5.714	5.217	4.80
31	39.561	23.841	17.062	13.284	10.876	9.207	7.982	7.045	6.305	5.705	5.210	4.79 4.78
32	39.130	23.684	16.981	13.235	10.843	9.184	7.965	7.031	6.294	5.696	5.202	4.78
33	38.710	23.529	16.901	13.187	10.811	9.160	7.947	7.018	6.283	5.687	5.195	4-78
34	38.298	23.377	16.822	13.139	10.778	9.137	7.930	7.004	6.272	5.678	5.187	4.77
34 35 36 37 38	37.895	23.226	16.744	13.091	10.746	9.114	7.912	6.990	6.261	5.669	5.180	4.76
36	37.500	23.077	16.667	13.043	10.714	9.091	7.895	6.977	6.250	5.660	5.172	4.76
37	37.113	22.930	16.590	12.996	10.682	9.068	7.877	6.963	6.239	5.651	5.165	4-75
38	36.735	22.785	16.514	12.950	10.651	9.045	7.860	6.950	6,228	5.643	5.158	4-74
39	36.364	22.642	16.438	12.903	10.619	9.023	7.843	6.936	6.218	5.634	5.150	4-74
40	36.000	22.500	16.364	12.857	10.588	9.000	7.826	6.923	6.207	5.625	5.143	4-73
11	35.644	22.360	16.290	12.811	10.557	8.978	7.809	6.910	6.196	5.616	5.136	4-73
12	35.294	22.222	16.216	12.766	10.526	8.955	7.792	6.897	6.186	5.607	5.128	4.72
13	34.951	22.086	16.143	12.721	10.496	8.933	7-775	6.883	6.175	5-599	5.121	4.71
14	34.615	21.951	16.071	12.676	10.465	8.911	7-759	6.870	6.164	5.590	5.114	4.71
15	34.286	21.818	16.000	12.632	10.435	8.889	7.742	6.857	6.154	5.581	5.106	
40	33.962	21.687	15.929	12.587	10.405	8.867	7.725	6.844	6.143	5-573	5.099	4.70
48	33.644	21.557	15.859	12.544	10.375	8.845 8.824	7.709	6.831	6.133	5.564	5.092	4.69 4.68
10	33-333	21.429	15.789	12.500	10.345	8.802	7.692	6.805	6.112	5.556	5.078	4.68
19	33.028	21.302	15.721	12.457	10.315	8.780	7.660	6.792	6.102	5.547 5.538	5.070	4.67
50	32.727		15.584	12.371	10.256	8.759	7.643	6.780	6.091	5.530	5.063	4.66
49 50 51 52	32.432	21.053	15.517	12.329	10.227	8.738	7.627	6.767	6.081	5.531	5.056	4.66
32	31,858	20.809	15.451	12.287	10.198	8.717	7.611	6.754	6.071	5.513	5.049	4.65
53	31.579	20.690	15.385	12.245	10.169	8.696	7-595	6.742	6.061	5.505	5.042	4.65
23	31.304	20.571	15.319	12.203	10.141	8.675	7.579	6.729	6.050	5.496	5.035	4.64
53 54 55 56	31,024	20.455	15.254	12.162	10.112	8.654	7.563	6.716	6.040	5.488	5.028	4.63
57	31.034	20.339	16.190	12.121	10.084	8.633	7.547	6.704	6.030	5-479	5.021	4.63
57 58	30.508	20.225	15.126	12.081	10.056	8.612	7.531	6.691	6.020	5.471	5.014	4.62
59	30.202	20.112	15.063	12.040	10.028	8.592	7.516	6.679	6.010		5.007	4.62

## **Pacific Coast Harbors**

The principal harbors used by pleasure and commercial craft on the Pacific Coast are shown on the following pages. Many of the maps shown in this edition are new or completely revised, compiled from the latest government charts and information supplied by port authorities. Detailed description of the facilities of each port accompanies the maps.

PACIFIC MOTOR BOAT'S Harbors section is intended only to supplement government charts and Coast Pilots and should not be used for navigation purposes. Channels, depths and dangers are not generally shown.

In 1951 every major oil company was asked to locate its marine service stations where facilities for servicing small boats are available. These are indicated on the various harbor maps.

Location of major yacht club moorings, where facilities are available to visiting members of other yacht clubs, are shown for most harbors.

North indicated on the maps is true north,

#### **KEY TO MAP SYMBOLS**

The various symbols on the maps and what they designate are shown

	Public Yacht Harbors.
-	Fuel and Lubricating Oil Stations.
	White letter "S" in black dot indicates Standard Oil Co. station. "U" stations, Union Oil Co. "B" indicates British American Oil Co. stations in British Columbia, which accept Union credit cards. Black "S" in white dot indicates Shell Oil Co. "A" in black dot indicates Associated. "G" designates locations of General Petroleum stations. "H" shows stations of the Home Oil Co. of British Columbia. Plain black dots designate miscellaneous supply stations.
	Yacht Clubs.
*	
•	Small Craft Anchorages.
_	Drawbridges.
0	

## ALASKA

#### Harbors

A LASKA offers unparalleled cruising waters to well-equipped pleasure craft as well as a livelihood to the thousands of boats engaged in commercial fisheries.

From Puget Sound in Washington to Cape Spencer in southeastern Alaska there is a system of narrow straits with deep water known as the Inside Passage. There are numerous rocks and reefs but a general absence of extensive shoals except at the mouths of glacial-fed streams.

Southeastern Alaska consists of a narrow strip of continental land, together with Alexander Archipelago, a vast chain of islands lying near the mainland. Here are found some of the most interesting cruising waters.

Between Yakutat Bay and Cape St. Elias, the coast is fairly regular. The great Malaspina glacier borders a section of this coast.

From Cape St. Elias to Cook Inlet the coast is rocky and deep, as is the south side of the Alaska peninsula and the offlying islands.

The Aleutian Islands are rugged and mountainous, with numerous islets, rocks, and reefs.

The Bering sea is characterized by shoal waters with extensive sand and mud flats along the shores, particularly in the approaches to the various bays and rivers.

In Southeast Alaska the principal towns are Ketchikan, Craig, Wrangell, Petersburg, Sitka, Douglas, Juneau, Haines, and Skagway. Complete facilities for commercial and pleasure boat are maintained the year around. Numerous small settlements and cannery site provide limited facilities for supply and repair. The boating season in Alaska generally extends from May to October, the drier season, and the rains, while frequent, are local.

Principal ports of central and western Alaska are Cordova and Valdez in Prince William Sound, Seward in Resurrection Bay, Kodiak on Kodiak Island, Unga and Unalaska to the westward, and Nome and St. Michael in Bering Sea.

#### Ketchikan

is located on Revillagigedo Island near the southeastern end of Tongass Narrows. It is the southernmost port of entry into Alaska and contains one of its finest harbors.

The Ketchikan Yacht Club is located in Thomas Basin behind the breakwater and offers mooring for pleasure craft.

RETCHIRAN H

KETCHIRAN H

PENNOCK
ISLAND

RADENBARON
COVE

KETCHIKAN

A small clubhouse offers a warm lounging room, galley and wash room. Entrance to the basin will accommodate boats up to 6-foot draft at low tide, with fresh water alongside moorings. Harbor anchorage behind the new breakwater is safe in all weather. The confined channel admits no sea and tidal currents do not exceed two knots. Ketchikan is the distributing center of the commercial and fishing industries of this part of southeastern Alaska. Oil stations, sawmills, canneries and cold storage plants are located here.

#### Wrangell

is on the west side of the northern end of Wrangell Island, 1 mile below Point Highfield. A breakwater, 300 feet long, has been constructed from the north extremity of Point Shekesti, and affords protection for small craft in the southern part of the harbor. The several open pile wharves are privately owned but open to the public on payment of wharfage charges.

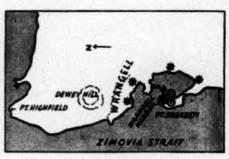
Tidal currents in Wrangell Harbor are variable and approaching vessels should be careful to determine the direction of the current and exercise caution in coming alongside. Several general stores supply provisions, fishermen's supplies and some ship chandlery. There are two companies operating marine ways. There is a well-equipped machine shop where repairs to machinery can be made. Fresh water is available on the main wharves and at oil company floats.

#### Petersburg's

harbor has been called one of the safest in Southeast Alaska. It is located at the northeastern end of Wrangell Narrows whose entire length is well lighted. A public float is located on the north side of the Citizens Wharf, and accommodations for small craft will be found midway between the Public Dock and the Citizens Wharf. Visitors will find sev-



**PETERSBURG** 



#### WRANGELL

eral stores equipped to supply them with all their boating needs.

There are several machine shops available for minor repairs to machinery. There are two marine ways. The larger is capable of hauling out vessels up to 100 feet in length. There is also a good gridiron on the north side of the oil wharves capable of accommodating boats up to 90 feet.

#### Juneau

the capital and largest city in Southeastern Alaska, is situated on the northeasterly side of Gastineau Channel, 8 miles from Stephens Passage.

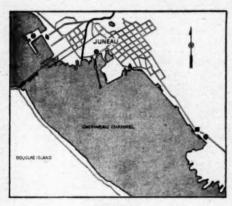
Small boats entering Juneau harbor proceed past the city to the bridge spanning the channel. The maximum vertical clearance is 45.7 feet for a width of 200 feet between the main piers. The small boat harbor is just beyond the bridge. The City of Juneau has made extensive improvements in its small boat harbor and it affords protection in any weather.





A regular bus service uptown is maintained, repair shops are close by, grocery and meat markets are in the vicinity. A telephone is on the main wharf and laundry and ice service may be obtained. Fresh water is available on the main float and arrangements may be made with the harbor master to obtain shore current. Two marine service stations are located in the city harbor, another just beyond the small boat harbor, where there is a complete machine shop, carpenter shop and drydock.

The Territorial Museum and Library is located in the Federal Building. Mendenhall Glacier may be reached by a 13 mile drive by car, Taku Glacier is 26 nautical miles from Juneau, easily accessible by boat. There are good trails on Mt. Juneau and Mt. Roberts, details of which may be obtained from the Regional Forester's office in the Federal Building. Juneau is located in the center of fine salt water fishing, and excellent fresh water trout lakes may be reached by short hikes or charter plane service.



JUNEAU

#### Sitka

one of Alaska's most important towns, is located on the eastern side of Sitka Sound. It is approached by the regular and well-marked steamer channel from the open ocean, with Kruzof Island to the west. Another entrance is by the steamer channel from Juneau on the inside passage through Sergius and the Whitestone Narrows.

Moorage for small boats is supplied without charge. Boats up to 65 feet dock at the city float with a small charge made for fresh water.

Several general stores supply provisions, fishermen's supplies and some ship



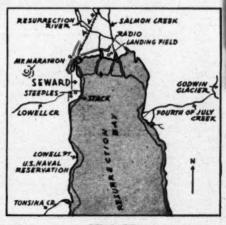
SITKA

chandlery. A number of government buildings, an Indian industrial school and home, a native village, sawmill, coldstorage plant, cannery and saltery are located here.

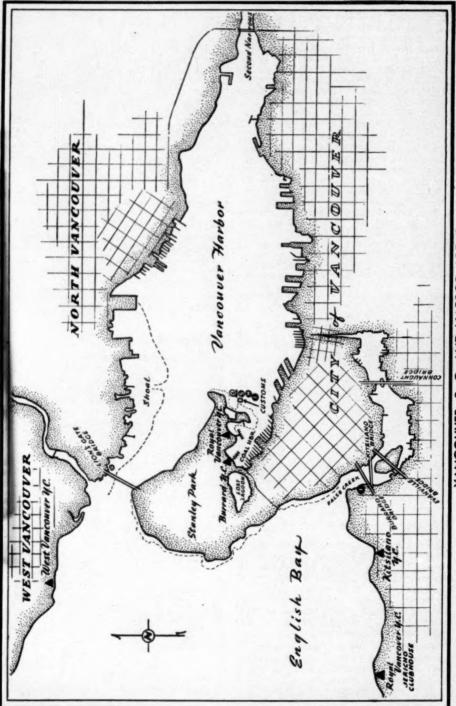
Marine railway and machine shop facilities are available for small craft.

#### Seward

is the important rail-head city, located at the head of Resurrection Bay on Kenai Peninsula. It is the southern terminus of the Alaska Railroad and avital steamship connection with the interior of Alaska. Seward has a small craft harbor and complete supply facilities such as fuel, food and equipment. Substantial improvements will be made to the small boat harbor this summer by the U. S. Army Engineers.



**SEWARD** 



VANCOUVER, B. C. AND HARBOR AREAS

# BRITISH COLUMBIA

#### Harbors

SAFE AND happy cruising through waterways of unexcelled grandeur, good fishing, convenient shore accommodations and a friendly atmosphere—these are British Columbia's offerings to the yachtsman and power boat sailor.

This season, as in many others in the past, thousands of pleasure craft will take advantage of this opportunity in Western Canada's marine vacationland, and facilities will be found better than ever, for British Columbia is fully conscious of the importance of this annual tide of seagoing travelers to and from her wonderful resorts along mile after mile of scenic loveliness from the northern reaches of Puget Sound to the Alaska boundary.

Those who delight in coastal cruising will find congenial people and surroundings wherever they wander in British Columbia waters because the province's economy is based largely on the industries of the waterfront—logging, fishing, towing and coastwise freight transportation. This fact in itself has been responsible in large measure for the existence of so many communities along the coast catering primarily to the needs of those who travel by sail and power craft.

Visitors from the United States are always welcome in British Columbia, and increasing numbers go there each year to share the unique attractions the province offers. The international boundary line is probably more imaginary between Washington and British Columbia than anywhere else, and those crossing it by sea encounter a minimum of inconvenience in fulfilling the simple formalities of customs and immigration procedure.

For those interested in sailing and power boat competition, British Columbia has several interesting events taking place during the 1951 summer. First of them is the race from Victoria to Swiftsure Lightship and return May 30 to June 3, but of much wider appeal are the Pacific International Yachting Association events July 1 to 5 which will center largely in the British Columbia capital, and which will attract contestants and spectators from several western states.

Power boat enthusiasts will have a special concern in the International Cruiser Race July 28-29 starting in Coal Harbor, Vancouver, and ending in Seattle. Other contests lacking the international flavor but important in their own sphere are the "Royals Regatta" in English Bay at which the Royal Vancouver Yacht Club plays host to visiting groups from the Royal Victoria Yacht Club and Royal Toronto Yacht Club, July 30 to August 2, and the Cowichan regatta at Cowichan Bay, Vancouver Island, September 2, 3.

#### Vancouver, B. C.

is situated on the south shore of English Bay and Burrard Inlet, bounded on the west by Point Grey and on the east by the Second Narrows Bridge. English Bay opens into the Strait of Georgia.

All vessels passing through Lions' Gate (First Narrows) should be well informed on the requirements of the Canadian Customs for entering. A new marine customs station will be anchored in Vancouver Harbor near the gasoline barges, beginning in June.

Moorages are available for all size yachts. The Royal Vancouver Yacht

Club and The Burrard Yacht Club welcome members of other clubs to make use of their facilities—so far as space permits. The Burrard Yacht Club moorings and clubhouse are at the entrance to Stanley Park in Coal Harbor. Floats are available to visiting yacht club members and if further stay is requested arrangements must be made with the caretaker. Coal Harbor and Burrard Yacht Club will be the rendezvous and starting point for the International Cruiser Race.

Vancouver's many beautiful hotels, parks, shopping district and other points of interest make it a year-round haven for visitors from all over the world.

Vancouver has been the heart of the boat building industry in Canada, and its progressive yards are offering top facilities for the building and repairing of commercial and pleasure craft.

The clubhouse and moorings of the Kitsilano Yacht Club are located at Kitsilano Beach, in the southeast section of English Bay, Vancouver, B. C. There are no guest moorings but there is a good bottom for anchoring. For small open boats there is a hoist capable of two tons and ample storage facilities on the club dock.

#### New Westminister, B. C.

has excellent facilities for wharfage and anchorage. It is situated on the north or right bank of the Fraser River, in a general easterly direction—seventeen miles from the entrance. For easy entry boats sail up the mouth of the Fraser River to the south of Lulu Island, lying to the east of the Strait of Georgia.

Supplies of all descriptions are easily obtained. Oil, gas, ice and fresh water, provisions and small boat repairs can be effected. New Westminster is the most important town on the Fraser River and it is the center of southern British Columbia gillnetting, hence it is of particular importance to commercial fishermen. Canneries and public cold storages are located along the waterfront.

#### Victoria, B. C.

is the provincial capital of British Columbia. It is surrounded by the waters of the Strait of Juan de Fuca and the Strait of Georgia, with the San Juan Islands lying to the east.

The harbor, lying two miles eastsoutheastward of Esquimalt, has its entrance between Macaulay Point and the breakwater extending from Ogden Point.

Special attention should be paid to tides, currents and winds in approaching Victoria Harbor as they are variable.

Pleasure boats visiting Victoria have three main anchorages, the Royal Victoria Yacht Club at Cadboro Bay, the yacht basin in front of the Empress Hotel and Constance Cove, Esquimalt Harbor. There are many commercial wharves in the outer, inner and upper harbors of the city. The fishermen's wharf provides two-thirds of a mile of berthing space and will accommodate an estimated 100 vessels.

Supplies of all kinds including ship chandlery and engineering needs are obtainable. Fresh water is piped to all the wharves in the city. Ship's refuse is collected free by the city and taken away in ash scows. Gasoline, oil, provisions and ship stores are available in abundance. A public cold storage plant supplies ice and fishermen's bait.

Victoria has been greatly developed in the last several years as a commercial





VANCOUVER ISLAND (Victoria to Ladysmith)

boating center. Several boat yards are located here.

Cadboro Bay is a pleasant harbor on the northeastern outskirts of the city. Here is located the clubhouse of the Royal Victoria Yacht Club, good mooring facilities, and some wharfage for visiting boats. Through arrangements with the club steward, provisions, laundry and dry cleaning service can be obtained.

#### Sidney, B. C.

located at the north end of the Saanich Peninsula is perhaps the most used of all ports of entry by United States yachtsmen. Wharf and floats are all at the foot of Beacon Ave., and floats are behind sheet piling on the north side of the small boat wharf. Customs House, government liquor store, and general supplies may be obtained in this town. Large scale charts of this locality may be obtained there by courtesy of the Canadian Customs Officers. Yachts are warned that it is not safe to lie at Sidney Wharf in bad S.E. or N.E. winds.

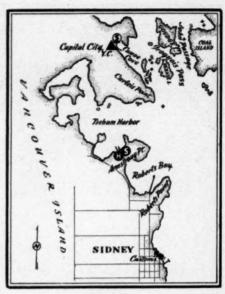
North of Sidney, about one mile, is Shoal Harbor, with oil, gas, water and general store and general repairs, Radio, phone and depth-sounding services available at two well-equipped marinas.

About half a mile north of Shoal Harbor is Canoe Cove where the Capital City Yacht Club have their headquarters. The Canoe Cove Shipyards Ltd., is one of the oldest yards in this district where gas, oil, water, ice and general and rozen stores may be obtained, also complete repair facilities with three slips to andle yachts up to 60 feet. A large number of boats of the Capital City facht Club are moored at Canoe Cove where a visitors wharf is available to isiting yachtsmen, and showers, with the water, are supplied at the club house.

#### The Gulf Islands:

Before the yachtsman, cruising north from Victoria or Puget Sound, approaches Sidney he will have encountered the first of the myriad islands of the Georgian Archipelago lying between Vancouver Island and the British Columbia mainland. Actually, these islands are an extension of the chain whose first links in the south are in U. S. territory—San Juan, Lopez, Orcas, Shaw, and the string of smaller islets surrounding them—and which continues northward to Discovery Passage and Seymour Narrows where the Straits of Georgia are pinched off to a narrow channel leading northward into Johnstone Strait.

The San Juan group is separated from



SIDNEY

its Canadian neighbors by Haro Strait through which the imaginery line establishing the boundaries of Canada and the United States passes. Along the strait's westward flank, at the approach to Sidney, lie the Canadian islands—Sidney, famous for its Sidney Spit, home of the elusive goeyduck, and James, which for many years has been the site of one of Western Canada's biggest explosive plants. A few miles to the north of Sidney, just across a narrow channel from the tip of the Saanich peninsula on Vancouver Island lies one of the largest members of the Georgian group—Saltspring Island, which guards the approach to Saanich Inlet and Brentwood Bay, celebrated for their many resorts and their Spring and Coho salmon.

The stretch of water separating the Saanich peninsula and Saltspring is Satellite Channel, and a ferry service is maintained for those desiring public conveyance as their means of contact between the two land areas from Swartz Bay on Vancouver Island to Fulford Harbor on Saltspring I. Saltspring is hilly and wooded, but it has been settled since the early days of British Columbia, many farm families having been located there for generations. The result is that the island is well served by roads and facilities convenient to travelers.

Vesuvius Bay, on the northeastern shore of Saltspring Island, has the only boat landing in this area. Beside the government wharf is a private wharf,

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where gasoline and water are available. A lodge, coffee shop and store are nearby.

Off to the east of Saltspring are Pender and Saturna islands, both possessing attractions for the yachtsman and power boat man eager for idyllic comfort as he wanders through the sheltered sea.

This year the Pacific International Yachting Association Regatta will start with a rendezvous at Bedwell Harbor, lying between the southern extremities of South Pender and North Pender Islands. At South Pender, on South Pender Island, there is a government wharf and float, a marine gas station, and a general store. This is a sheltered harbor with a large safe anchorage area.

On the northeast shore of North Pender Island there is a landing at Hope Bay, where gasoline and diesel oil products are available. A general store is nearby.

Pender and its northern neighbors, Mayne and Galiano, are close to the main deepsea shipping routes between Victoria and Vancouver, and nearly all coastwise vessels pass through the curving Active Pass separating Galiano from Mayne.

The northwest shore of Saturna Island is deeply indented by Lyall harbor, where a wharf, gas pump and general store is available to serve boats.

Galiano is a long, narrow island trending northwesterly. Trincomali Channel separates this island from Saltspring. As on scores of other islands in the archipelago, Galiano offers countless opportunities for sea sport and interesting forays from beach to timbered hills and friendly fields, ideal for picnicking, or impromptu overnight visits.

In Sturdies Bay, Galiano Island, located in the vicinity of Active Pass, is government pier and a private dock which has long been a favorite stopping place for cruising yachtsmen. Although the Galiano Lodge was destroyed by fire this spring, the owners will maintain complete services for boats, including water and a full line of petroleum products. Meals can be obtained nearby. Tours of the island and transportation to a golf course are still available.

Many of the islands visited in the Georgian Archipelago have been only lightly touched since their first glimpse by the white men—by the Spanish explorers who gave their names to them—Galiano, Valdez, Gabriola and so on. Their outward appearance is the same as it was over a century ago when the Haida Indians in their huge war canoes sailed and paddled all the way from the

Queen Charlottes to battle with the Cowichan and other tribes. Chief outpost of Indians in this area now is **Kuper Is**land, lying to the west of Galiano, but there are numerous Indian reservations along the coast.

A dredged channel, crossed by a fixed bridge, separates Kuper and Thetis Islands. In Telegraph Harbor is a wharf and a store where petroleum products and all provisions except fresh meat are available. The wharf is located on the southeast shore of Thetis Island, north of Foster Point.

Wallace Island is located in the Trincomali Channel between Saltspring and Galiano islands. At a harbor, locally known as Conover Cove, on the southwest shore, is a boat landing, a general store where gas, oil, and water can be obtained in an emergency.

Northward from Galiano is Valdez Island, separated by Porlier Pass, and then Gabriola Island. Although Silva Bay on Gabriola Island is considered a difficult entrance to make for the first time, it is a popular stopping place for yachtsmen and complete facilities have been installed to serve visiting boats. A detailed Canadian chart shows the bay, which is surrounded by the Flat Top Islands on the Gulf side of Gabriola Pass. Facilities include two marine service stations, wharfs, floats, adequate store facilities for groceries, hardware, fishing supplies, a cafe, and a shipyard and machine shop.

North of Gabriola there is a break in the island chain and a stretch of open water until Lasqueti and Texada islands are encountered, these two units being separated by Sabine Channel. Texada geologically and economically is one of the most important of the Georgian Islands because it has extensive copper, iron and limestone deposits. Gillies Bay, on the western shore of Texada, and Blubber Bay, at the north, just across from the prosperous newsprint community of Powell River, are the largest settlements on the island.

Cruising westward again, the sailor reaches Hornby and Denman Islands, across Stevens Pass and hugging the shore line of Vancouver Island, just a few minutes' cruising from the Island Highway where it passes Bowser, Fanny Bay and Buckley Bay on the way to Cumberland and Courtenay. Hornby Island has several small resorts and passenger ferry service to Buckley Bay. Denman also has much to offer the camper who delights in rustic surroundings.



NANAIMO

### Maple Bay, B. C.

on Vancouver Island is a bay and a village on Sansum Narrows, between Sidney and Nanaimo. The Maple Bay Yacht Club maintains floats and other facilities which are available to visiting yachtsmen. Water, gas and oil are available, as well as boat repairs near the town of Duncan by highway.

Birds Eye Cove is a sheltered inlet off Maple Bay, six miles north of Cowichan Bay on Vancouver Island, where a full line of petroleum products are available. Facilities include a wharf, 900 feet of floats for which a small charge is made for mooring, marine ways up to 45 feet, a fully-equipped repair shop, store, ship chandlery, good spring water, shower baths, and a small self-service laundry.

### Cowichan Bay, B. C.

is a deep indentation on the eastern shore of Vancouver Island a few miles north of Sidney. At the village is a government wharf with gasoline and diesel oil pumps. Marine repairs, services, boat building and repairing are available. Genoa Bay is located within Cowichan Bay, approximately one mile northwest of Separation Point which is at the southern end of Sansum Narrows or approximately three miles northwest of Cape Kepple at the southern end of Satellite Channel. Services here include gas, oil, water, wharfage, store, meals, etc., and a lodge is nearby.

### Ladysmith, B. C.,

in Ladysmith Harbor on Vancouver Island offers a protected anchorage, delightful water for swimming. Groceries and supplies can be obtained. On the opposite shore from the town is a float and boat landing where gasoline, fresh water, ice, and provisions are obtainable.

### Nanaimo, B. C.

is situated on Vancouver Island, 73 miles N. E. of Victoria with Vancouver almost opposite across the Georgian Straits—a distance of 33 miles. The harbor is approached from the north and east between the western end of Gabriola Island, and Vancouver Island west of it, a distance of 3 miles. There are three channels between the dangers in the approach. The approach from the southward is through Dodd Narrows and Northumberland Channel, the latter being free from all dangers. No breakwaters or bridges are in this area.

Public moorings can be found at the yacht club premises and Farmer's Landing, between the Canadian Pacific R.R and Hearst Wharves. Pleasure yacht are not liable to harbor dues.

The Nanaimo Yacht Club is at Exi Passage—between Newcastle Island and the mainshore. The clubhouse is at the street end of Rosehill Street connected with the moorings by a ramp. Full facilities are available for visiting yacht club members. The Government float is used as a public landing.

Nanaimo has long been a mecca for yachtsmen and a convenient stopping point for extensive cruising northward

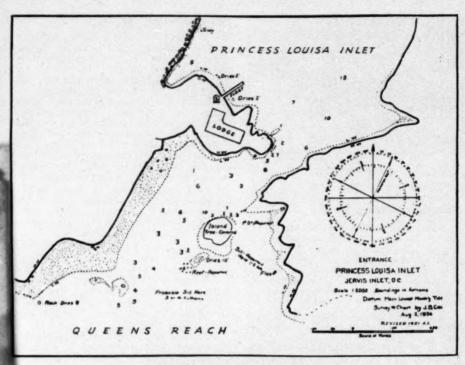
### Georgia Strait:

### Vancouver to Johnstone Strait

Secret Cove is a popular yachting center and because it is only 45 miles from Vancouver offers special attractions to people from that city on a week end cruise. It offers a wide range of supplies, including gasoline and fresh water.

### Pender Harbor, B. C.

10 miles north of Thormanby Island, is on the mainland 48 miles north of Vancouver, and shown on the maps as Irving's Landing. It is just inside the harbor entrance. The safest entrance is the northernmost channel, keeping the light beacon to starboard. There are numerous anchorages in the many bays and channels of the Harbor. Dance's Landing, inside the entrance to Pender Harbor on the south side, has mooring facilities. Large yachts often anchor off the western point of Garden Bay Peninsula, which is a favorite rendezvous for yachtsmen.



PRINCESS LOUISA INLET

Egmont, located at the entrance to ervis Inlet, is near the Skookumchuck Narrows, famous for salmon fishing as well as for its scenic grandeur. There is a small community here with a store operated by the Egmont consumers' cooperative and facilities for water, gas, diesel fuel and storage supplies. As it is a long run to the head of Jervis Inlet at Princess Louisa Inlet and the Malibur Fort, most people cruising to that area make sure they are adequately supplied at Egmont.

### **Princess Louisa Inlet**

Princess Louisa Inlet is a short offshoot of Jervis Inlet, approximately 100 miles north of Vancouver, B. C. The inlet is near the head of Jervis Inlet and has an entrance with peculiar conditions to reckon with. The inlet's entrance is so inconspicuous that it can easily be passed by unnoticed. The shore to the east of the entrance (near side), slopes up steeply at an angle of 30 degrees or so (60% slope), and contrasts with the precipitous cliffs behind it and to the west of the entrance, to make a good landmark for the approach.

An islet lies in the entrance. Although small boats may pass to the east of the island it is advisable for the visiting yachtsman to enter the inlet through the main channel on the northwest side where the water is deep and free from reefs.

On one's first entrance into the inlet it is advisable to wait for high or low water slack. In checking the tide in Jervis or Princess Louisa Inlets use the Sand Heads tide tables. Officially, high and low slack occurs 20 minutes after the time given in the Sand Heads table but one-half an hour before or after that time will assure an easy entrance. Yachtsmen who are familiar with the entrance may enter or leave with safety on the short tides, i.e., from three to nine-foot tides.

Located just inside the entrance on the western shore is the Malibu Club where supplies, groceries, fresh fruit and vegetables, frozen foods, fuel and oil, water and radiotelephone service are available to yachtsmen. Luxury accommodations ashore are offered. Between the entrance and the head of the inlet, a distance of five statute miles, there is only one reef, a patch of rock 150 feet off the easterly point of the island half way up the inlet.

Good anchorages in quiet water may be found anywhere along the shores of the cove to the north of the island half way up the inlet. At the head of the inlet the best anchorage is just off the falls.

Gorge Harbor on the west side of Cortes Island is scenically interesting, but Manson Landing, nearby, offers stores, water and gas facilities.

Blind Creek is another Cortes Island point of interest to yachtsmen and power boat men who have become attracted to the charms of the Cortes Island region. This community is on the south side of the island, offers good shelter, supplies and gas.

Refuge Cove, on Redonda Island, across the channel from Squirrel Cove, accommodates the traveler with stores and power boat fuel and merchandise. The latter point is an old Indian village and is particularly interesting for that reason. The entire area is highly scenic.

Both Bute and Toba Inlets, in the adjacent area, are favored cruising grounds, although supplies are not available there and the provident traveler will have made his arrangements at Refuge Cove or Squirrel Cove or Stuart Island, which has a wide selection of supplies, gas and diesel fuel, water, etc.

Stuart Island has a daily plane service and telegraph communications and is a last supply stop for scenic cruises up 45-mile Bute inlet. Boats tie up at the Stuart Island float while waiting a change of tide in Yuculta Rapids.

Owen Bay on Sonora Island commands the entrance to Okisollo Channel, where the tides are tricky but well worth mastery as the waterway leads to a land of enchanting scenery. Stores and fuel are available.

Quathiaski Cove, on Quadra Island, is a commercial fishing center. This is a stopping place for boats waiting for Seymour Narrows.

Campbell River itself, at the mouth of famous trout stream, offers limited facilities to the visitor. The famous Tyee Club for sport fishermen is located at the end of the spit running out from the river mouth's south shore.

April Point, on Quadra Island, is recognized as the yachtsman's headquarters for Tyee fishing off the Campbell River, and its commodious mooring facilities and holiday atmosphere have made it one of the coast's favorite resorts. A marine oil station is here, and the Queen Charlotte Air Lines provide service to this point.

Because the tide runs fast through Seymour Narrows, it is sometimes regarded as a hazardous stretch of water. Actually, there is little or no risk if the yachtsman tackles the narrows at slack tide and watches his current tables, which in this instance are even more important than the tide times.

While waiting for the tide to change in Seymour Narrows, Brown's Bay is a good spot to stay when southbound. The location is about three miles north of the Narrows and its store is well stocked with goods usually needed by cruising parties. Heriot Bay, on the east side of Quadra Island, has a store and limited facilities for supplying boat fuel. Similarly, Rock Bay has no regular offering of supplies, although it is a site of bury logging operations.

### No. Vancouver Island:

### Johnstone Strait to Queen Charlotte Sound

Shoal Bay, on Thurlow Island, makes a good base for those planning to cruite up Phillips Arm. The objective of such a side trip is usually the excellent trout fishing on Phillips River. Shoal Bay can meet boats' requirements for gas, oil and similar supplies.

Kelsey Bay, on Johnstone Strait near the mouth of the Salmon River, commands the approach to the fertile Sayward valley on Vancouver Island and as it is also the operating base for a large logging company it stocks a good supply of gasoline, diesel fuel and general stores and fresh water. There is a post office and government telegraph station here.

Port Neville is a small settlement offering a good shelter, and there is a store there where gas and merchandise may be obtained.

Minstrel Island, at the mouth of Knight Inlet, affords the yachtsman and power boat man his last opportunity to obtain supplies prior to cruising up the fjord-like inlet. He will be able to satisfy



VANCOUVER ISLAND (Nanaimo to Thurlow Islands)

most of his requirements here, if they are not too ambitious.

Baronet Pass on Chacroft I., where a small sawmill and boatbuilding yard are located, near Walden Island, also has a gas station for the convenience of cruise parties.

Englewood and Beaver Cove are logging communities for two of the larger British Columbia companies and general supplies are therefore available, although the communities do not make a point of catering to pleasure travel. Telegraph Cove, on the south shore of the entrance to these places, offers supplies, gas, etc.

Alert Bay is the largest and one of the most interesting of all the settlements in the region, with a population of about 2,000. Police, forestry, fisheries and other government departments have their local bases here. The place is noted for its picturesque Indian village with its totems. An Indian residential school is in the town. A wide range of supplies is offered by the stores. Hotel accommodation is also available. There are ample supplies of fresh water, gasoline and diesel fuel, etc.

Malcolm Island and Sointula also offer a charm of their own, for here is an industrious Finnish settlement colonized by a group of immigrants who came to the Pacific coast two generations ago and whose main livelihood now is agriculture and fishing, which are carried on co-operatively.

Port Hardy, while a settled community for a good many years and the location of one of the British Columbia coast's more important air bases, offers limited marine service. However, it is the base of a large logging company and the road to Coal Harbor whaling station starts here, so it is possible to obtain accommodation in an emergency.

Bull Harbor is the farthest north spot on Vancouver Island that anyone but the most adventurous small boat navigator will want to visit. It is a sheltered cove on Hope Island. There is a government wireless station here. Supplies may be obtained from the fishing settlement during the summer.

Cascade Harbor, on nearby Nigel Island, is another fishing center offering access to supplies in summertime.

Alison Harbor, at the mouth of Seymour Inlet, and Sullivan Bay in Wells Passage, offer a pretty general selection of supplies to cruise parties.

Simoon Sound is the supply center for the Kingcome Inlet area, and good stocks are available here for travelers. The location is on Gilford Isiand in Cramer Pass—a scenically memorable part of the coast, ideal for cruising, and with a fine reputation for fishing.

### Vancouver Island:

### West Coast

On the west coast of Vancouver Island beginning at the northern tip, the first point of call for small craft is usually Winter Harbor, at the entrance to Quassino Sound. This is a fairly busy fishing center and it offers all the supplies, fuel etc., ordinarily required.

Heading southward in Kyuquot Sound is the village of Kyuquot, on Mission Island, affording good protection for small craft and ample supplies. This has been a fishing community for years. Excellent shelter is also provided at Queen's Cove at the entrance to Esperanza Inlet For the wanderer, there are several communities farther up the inlet—places such as Zeballos, one of British Columbia's most active gold camps a few years ago; Ceepeecee, site of a fish reduction plant, and Tahsis, where a large tidewater sawmill is located.

This section of the west coast of Vancouver Island is rich in history, for it was here that Captain John Meares used to trade with the Indians for furs which he carried across the Pacific to China. Here was the domain of the famed chief Maquinna and it was at this point that British and Spanish ships almost went to war. Friendly Cove and Nootka were the center of industry in the long ago as bases of the fur trade. They are still inhabited by Indians, and fishing is active. Plenty of space for shelter in the bays here, and stores, gas, oil are available.

All supplies for cruising purposes are to be had, too, at Hot Springs Cove, a few miles away, and at Tofino in Clayoquot Sound near the northern extremity of a spur of land reaching upward from the multi-mile-long strip of sand at Long Beach.

Ucluelet is an important fishing and logging center at the entrance to Barkley Sound. From here there is a long, well-protected arm of the sea reaching by way of Alberni Canal to Port Alberni, one of Vancouver Island's major industrial centers, with pulp and lumber mills and a thriving fishery. Port Al-



BRITISH COLUMBIA (Kelsey Bay to Bella Bella)

berni is on the main highway through Victoria, Nanaimo and east coast cities.

Near the entrance to Alberni Canal, on Uchucklesit Inlet, is the cannery community of Kildonan. Franklin River and Sarita are logging communities along the canal. Near the southern entrance to Barkley Sound in a well-protected bay is Banfield, where the Pacific cable station is located and all supplies are available. From that point and around Cape Beale there is a long stretch of open water, often rough, to Sooke, although there are settlements at Clo-oose, Port Renfrew and Jordan River, the latter two being principally noted for logging. Their accommodation for pleasure craft is strictly limited. Sooke, on the other hand, has all needed facilities and direct road connection with Victoria, about 20 miles away.

### B. C. Coast:

### Smith Sound to Bella Bella

From Vancouver Island north through Queen Charlotte Sound there is a stretch of open water that can, at times, test the most skillful of navigators, but protected stretches are not far distant, and there are several fishing and cannery centers in the Rivers Inlet district. This is one of British Columbia's great commercial salmon centers.

The Rivers Inlet district, while primarily important for its commercial fisheries, is a favored cruising objective of yachtsmen, who usually make their base at Dawson's Landing or Duncanby Landing, both of which have a full range of supplies available.

Safety Cove provides shelter, but its stock of supplies is not a varied one.

For the tourist Bella Bella offers more attraction than most of the other places in this section as it has been an Indian settlement for many years and noted for its Indian architecture and totems. The same general description applies to Bella Coola, at the head of Dean Channel, which commands access to beautiful Tweedsmuir Park, a national reserve, and the overland trail first blazed by Alexander Mackenzie, the explorer.

Just north of the area shown on the accompanying map is Ocean Falls, situated on Cousins Inlet off the junction of Fisher and Dean Channels. Here is located the Ocean Falls Yacht Club, at the starboard hand as the end of the inlet is approached. Petroleum products, and fresh water are available. A general store is operated by Pacific Mills, Ltd. Radio, telephone and telegraph stations handle communications to outside points. The Yacht Club marine shop and the company marine shop can provide drydocking and repairs.

### Prince Rupert, B. C.

is situated on Kaien Island at the southern side of Prince Rupert Harbor, about 50 miles from the Alaskan border. It is 25 miles from Port Simpson and 550 miles from Vancouver, B. C. The entrance is through Chatham Sound and Prince Rupert Harbor, between Lima Foint of Digby Island and Kaien Island, nearly five miles northward of Kitson Island in the approach. All approaches to the harbor are deep and navigable for



#### PRINCE RUPERT

the largest vessels at all times. In the central part of Prince Rupert Harbothe depths vary from 20 to 33 fathom and in the fairway northwest of the set tlement from 20 to 22 fathoms.

There are a number of docks where both pleasure and work boats can tie up Wharves for larger vessels fronting the city are of considerable extent, with deep water alongside. Prince Rupert is one of the most important commercia fishery centers in the Northwest.

Boat and engine repairs are available



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### WASHINGTON

### Harbors

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The Columbia, the West's greatest river, forms the southern boundary of Washington and provides a navigable waterway for small craft to the eastern section of the state. The western shore of the state is deeply indented by two large harbors, Willapa Bay and Grays Harbor.

The Northwest boundary is formed by the Strait of Juan de Fuca from which numerous bays and inlets penetrate deep into the interior of Western Washington. These inland salt waterways, including Puget Sound and Hood Canal, offer extensive cruising grounds with thousands of miles of shoreline and some of the best sailing waters in the country. The climate is mild and comfortable in Western Washington and yacht clubs schedule events for every month in the year.

An increasing number of restricted areas are being placed in popular cruising waters. Because of the existing dangers during military target practice, mariners should familiarize themselves with regulations and keep their charts up to date. Navigation regulations can be obtained from the Corps of Engineers, U.S. Army, 4735 E. Marginal Way, Seattle 4, Washington, and from the U.S. Coast Guard.

Areas in which entry of privatelyoperated vessels is prohibited because of military operations, including bombing and torpedo practice, are (1) an area off the Northwest shores of Whidbey Island extending to the Minor Island light. (2) Waters in the vicinity of Oak Harbor and Crescent Harbor on the east side of Whidbey Island. (3) The seaplane landing area in the vicinity of Sand Point, Lake Washington. (4) Sinclair Inlet (for vessels of more than 100 gross tons). (5) Smith Cove, Elliott Bay, (6) Certain waters of Port Orchard in the vicinity of Keyport. (7) Waters in the vicinity of Bangor, Hood Canal and Dabob Bay. (8) An area in the vicinity of Hein Bank and Eastern Bank in the Strait of Juan de Fuca. (9) An area in Budd Inlet surrounding the anchorage of the reserve fleet.

Areas where anchoring or trawling is prohibited include the northern half of Admiralty Inlet and an area near Jeferson Head.

Anchorages which are prohibited small craft include the Freshwater Basemergency explosives anchorage, the Kingston explosives anchorage, Thorrdike Bay emergency explosives anchorage on Hood Canal, Blake Island explosives anchorage, the Port Townsend explosives anchorage. Ships at anchor in these areas should be given a wide berth.

General anchorage and berthing area have been established at Kilisut Harbor Holmes Harbor, Port Gardner, certai areas near Smith Cove and Harbor I land in Seattle harbor, and Orchar Point. Regulations are vague concerning the use of these area by small craft but generally, necessary navigatio through these waters is permitted.

In addition, certain areas are utilized intermittently for naval target practice. These include danger areas in the vicinit of Waldron Island, Rosario Strait, Smit Island, Saratoga Passage, Sea Lion Rock at Queets, Willapa Bay, Admiralty Inlet and the Washington Coastal warning areas. At present these are not shown on the charts and are used without notice.

### Seattle:

Within Seattle's city limits are 193 miles of shoreline. Salt water harbors include Elliott Bay, East and West Waterways, Smith Cove, and Shilshole Bay.

Most small boats enter the government locks at Ballard to fresh water, a series of canals and lakes which includes Salmon Bay, Lake Union, Portage Bay, and Lake Washington. Here are found small boat landings, covered moorings, well-equipped marine stores, boat and

engine distributors, yacht clubs, marine ways, boatbuilders.

Seattle is the center of the big Washington boat population. The Corinthian Yacht Club has moorings at the new sailboat center at the Leschi dock, Lake Washington. The Corinthian and Seattle Yacht Clubs are sponsoring an active sailing program here.

Queen City Yacht Club is located on the southwest shore of Portage Bay. Temporary moorage is available to boats

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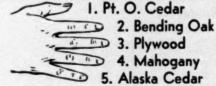
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Seattle Yacht Club is located near the entrance to Montlake Canal on Portage Bay. All members of recognized yacht clubs are welcome to use their facilities. Visiting membership privileges are accorded all members of recognized clubs for three months, during which time moorage is obtainable at customary rates.

Other yacht clubs in the Seattle area include the Tyee Yacht Club, the Rainier Yacht Club, and, on the eastern shore of Lake Washington, the Meydenbauer Bay Yacht Club.

Small craft and storm warnings are flown from the top of the Exchange building, First and Marion Streets in downtown Seattle; at the Seattle Yacht Club; and at the east end of the center guide pier of the government locks at Ballard.

#### Government Locks

The Government locks at Ballard, gateway to Seattle's fresh waterways, are entered from Puget Sound through Shilshole Bay.

Red and green signal lights are established on the guide pier below the Great Northern Railway bridge below the locks. Green indicates that waiting vessels must proceed immedately into the large lock, and that the lock is empty of all traffic, and vessels leaving the lock have either passed through the Great Northern Railway bridge below the lock or have entirely cleared the lock at the upper end. If the red light is burning, vessels for the large lock must moor at the pier.

Vessels bound for the small lock shall obtain instructions from the pierman on the end of the pier as to which lock to use and shall be guided into the small lock by traffic signals thereon.

Vessels bound for the large lock, going east, and vessels leaving the small lock, going west, when meeting in the vicinity of the Great Northern Railway bridge must pass to the left. If in doubt sound the whistle or horn to avoid accidents.

To avoid damage to other vessels and to property along the shores, all vessels are asked to proceed at reduced speed in the canal. Speed limits are posted.

Bridges and locks in order from Shilshole Bay into Lake Washington:

Great Northern Railroad bridge at West entrance to the locks: Clearance is 43 feet at ordinary high water. Whistle signal to open is one long blast and one short blast (————).

Ballard Locks: Approaching the locks from either direction prepare bow and stern lines at least 50 feet long, and have bumpers ready for use on both sides. A lock slip, obtainable from the lockmen, should be filled out and ready before entering the locks. Prepare to lay alongside where the sign says "STOP HERE" until given instructions to proceed either to the large or small lock.

A boat entering the locks should proceed with caution at a reduced speed so that it can be stopped by snubbing its mooring lines. On entering the locks from Shilshole Bay, the salt water side, the attendant will lower a light line so you may attach your line and he can haul it up. The attendant will make your lines fast on shore, leaving you the responsibility of preventing damag to your boat or others in the locks a the water swirls while rising or falling Be sure to take up slack on your lines or pay out gradually, to prevent you boat from lurching out of control. Twe floating mooring bitts have been installed on the south side of the small locks fo emergency use. Whistle signals are two long, two short with tow, two long and three shor

Extreme caution should be taken to avoid the spillway area at the south of the small locks because of dangerous currents and whirlpools.

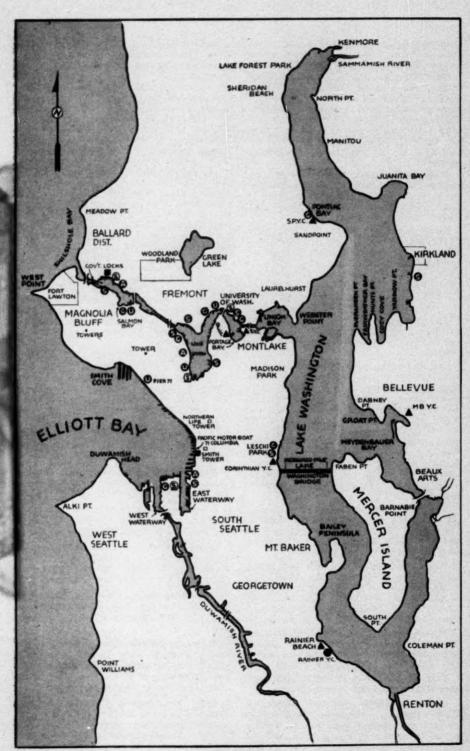
Northern Pacific Railroad Bridge Crosses the canal. Clearance is 15 feet Whistle: —————.

Fremont Bridge: Between the cana to the West and Lake Union on the East Clearance is 30 feet. Whistle: ————.

George Washington Memorial Bridge (Aurora Bridge): A fixed bridge almost above the Fremont Bridge, Minimum clearance is 135 feet over channel.

University Bridge: Between Lake Union and Portage Bay. Clearance is 29 feet; 43 feet in mid-channel. Whistle:

Lake Washington Floating Bridge: Floating pontoon bridge on Lake Washington connecting Mercer Island with Seattle. Smaller craft can pass under approach spans at each end of floating



SEATTLE

sections, which have a minimum clearance of 29 feet with 9 feet additional at the shore ends, Large vessels gain access to the south end of lake through the draw span of the floating bridge. Advance notice of 30 minutes is required from 9 p. m. to 5 a. m. Phone ADams 0072. Whistle:———.

East Channel Bridge: A fixed span, connecting Mercer Island with east mainland. Clearance is 38 feet.

Bridges in order from Elliott Bay up to Duwamish Waterway:

First Avenue South Bridge: Clearance is 20 feet at mean higher high water. Whistle:

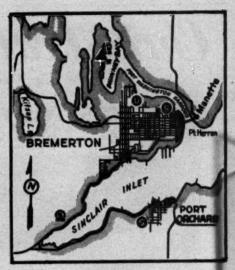
Moorings and floats: Commercial moorings for medium and small boats will be found just southeast of Duwamish Head on Elliott Bay and up the Duwamish Waterway. East of the government locks at Ballard, in fresh water, the Salmon Bay Terminal, operated by the Port of Seattle, has many berths available, especially during the summer months, which are rented by the day week, or month. Yacht clubs have berths available for associate club members.

A public float at the foot of Washington St. in Elliott Bay on the south side of pier 50 is maintained by the city of Seattle. It can be utilized to load and discharge passengers, and one person must remain aboard the boat at all times while it is tied up. Permits for official parties should be obtained in advance from the chief of the Seattle Fire Department.

A public float at the foot of 24th Ave. N. W., east of the government locks at Ballard and on the north end of the canal, is available for shopping stops in the Ballard district. There is a lay over time limit of approximately two hours.

#### Bremerton:

At Phinney Bay, Bremerton Yacht Club members now operate a marine railway at nominal rates for the benefit of all skippers of recognized clubs as well as for themselves. Berthing facil-



BREMERTON

ities are available for visiting boats. Gawater, and electricity are available the club floats, and the clubhouse has a small store.

There also are marine railways a Manette (East Bremerton). Port Orchard (two), and Poulsbo. Small bos moorages also are available at thospoints, and pleasure and commercia boat-building firms are newly active-notably at Winslow, Poulsbo, Waterman Southworth, Shelton, Purdy, Gorst Tracyton and Manette.

Two large Bremerton firms carry extensive lines of marine supplies and gear

### Tacoma:

is a maritime city whose main water front establishments are located within Commencement Bay on Puget Sound, 25 nautical miles south of Seattle. It is a busy boatbuilding center and famous for the work of its skilled boatbuilders, who build tuna clippers and other fishing vessels and sleek pleasure craft. Full facilities for serving visiting craft exist at this busy port.

The Tacoma Yacht Club is one of the most active in the West, where boating is enjoyed on a year-around basis, with sailing races scheduled for all months of the year. The New Year's regatta for both power and sail is the only Northwest event of this type.

The Tacoma Yacht Club is located on the northeastern shore of Commence-

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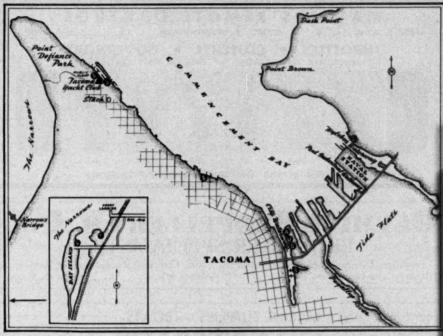
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TACOMA

ment Bay, and can be easily found as it is just N.E. of the towering smelter stack that can be seen for many miles. The approach to the sheltered small boat harbor behind the breakwater should be made with care as the narrow entrance is near the Tacoma-Vashon Island ferry dock.

Within the small boat harbor is a public boat landing, while the landing of the Tacoma Yacht Club and clubhouse are located at the far end of the harbor. Gas and oil are available at both landings. Facilities, including guest moorings, are available for visiting yacht club members for a period not to exceed 10 days. A dining room and snack bar at the clubhouse is open from 9 a.m. to 9 p.m. every day.

During the summer months cruising is the main boating activity as Tacoma is strategically located in the midst of some of the best cruising waters in Puget Sound proper. To the south lie a myriad of islands and deep inlets that make up southern Puget Sound. To the north are the broad reaches of the Sound which includes Vashon and Bainbridge Islands and the main passages to the sea and British Columbia waters.

Day Island is a small harbor located on the south end of the entrance to the Narrows, on the West Shore of Tacom, east of Fox Island. Approach the harbor at Day Island from the north end of the island, with the breakwater to the pot as the Day Island waterway is entered. It is advised that strangers should not attempt to navigate this waterway except at four feet or more of tide. moorage basin is located at the north end of the island, at the east side dredged to minus 5 feet. Gasoline, stovioil, bottled gas, ice and supplies are available, and boats up to 20 tons can be hauled out for repairs. Another small boat landing is directly opposite.

Day Island Yacht Club has an anchorage at the south end of the Day Island Waterway and should be approached with caution as a fixed bridge spans the waterway.

A naval restricted area has been established in the main harbor in the vicinity of the naval station in Commencement Bay. This includes an area within 100 feet of the northwesterly face of the station, and within 200 feet of the shore or shore structures or within 100 feet of the outboard face of vessels moored alongside in Hylebos and Port Industrial waterways. The two small boat landings on the east side of Hylebos Waterway lie outside the restricted area

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and may be approached from the bay. Here fuel and supplies for outboards and other small craft may be obtained.

Small craft and storm warnings are flown from atop the Fidelity building in the central part of the city, ¼ mile from the City Waterway.

#### Tacoma bridges:

City Waterway: South 11th St. Bridge. Clearance 60 feet at ordinary high tide. Whistle:

Union Pacific Railway Bridge: South 15th St. Clearance 3 feet at ordinary high tide. Whistle:————

Puyallup Waterway: East 11th St. Clearance 22 feet at ordinary high water. Whistle:

Milwaukee Railroad Bridge: Clearance 4.5 feet at ordinary high water. Whistle:

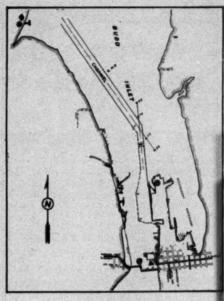
Hylebos Waterway: South 11th St. Bridge. Clearance 17 feet at ordinary high tide. Whistle:

### Olympia:

Olympia is situated at the head of Budd Inlet, the southernmost harbor of Puget Sound. Budd Inlet is six miles long, with an average width of one mile, extending southward to the west Fourth street highway bridge. The Des Chutes Basin has been converted into a fresh water lake. Boulevard and other improvements will make the area a recreational part of the state capitol grounds. Depths in the harbor range from 4½ to 6 fathoms, and good anchorage may be had anywhere inside the entrance in muddy bottom. The shores are low and wooded, and the depths shoal less abruptly on the eastern side of the Inlet, north of Priest Point. South of Priest Point on the east shore is a mud flat which bares at low tide.

The Olympia Yacht Club's moorings are found by following the regular steamship channel and may be reached at any stage of tide. Two large visitor floats for members of recognized yacht clubs are maintained at the Olympia Yacht Club. The City of Olympia maintains a float for transient commercial moorage with a 24-hour mooring limit.

Boats may not cruise nor anchor within 500 feet of the Reserve Fleet anchored in Budd Inlet, as a restricted area has been established here.



**OLYMPIA** 

Small craft and storm warnings are flown from the main dock of the port of Olympia, one-half mile from the city center.

### Everett:

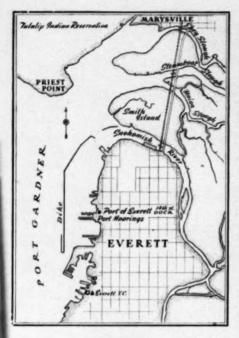
Everett is located on the eastern shore of Possession Sound (in Puget Sound) with Gedney Island lying west in the channel. It is in Snohomish County, 25 miles north of Seattle.

Everett is near good fishing waters.

Landings for visiting yachtsmen are maintained by the Everett Yacht Club at Tract M and by the Port Commission at 14th St. offering hospitality to visiting boats up to 65 feet in length and 12 feet draft.

Recent additions to Everett facilities are the new small boat moorings of the Port Commission located at 14th Street. The river channel has been dredged to 8 feet at mean lower low water, with 14 feet at extreme low in the moorage basin. The channel to 14th Street lies immediately west of the Everett Pacific Shipbuilding plant, and is inside the jetty running north. Two dolphins with signs indicate the entrance to the mooring area.

Small craft and storm warnings are flown on the city dock, west of the city center, at the Yacht Club.



#### **EVERETT**

Several local stores specialize in ship chandlery and all regular city entertainment and shopping accommodations are available.

Boat repairs for any size boat or ship are within easy reach of the public moorages.

### Cornet Bay

is the site of the first marine park established in the state. It is located on the southeast shore of Cornet Bay on the north shore of Whidbey Island, just east of Deception Pass bridge. A mooring area has been established, a pier has been built, and shower rooms and picnic grounds are available. This park, established specifically for boat owners, is an ideal place to wait for a change of current before making a westerly passage through the pass. The currents in the narrows of the pass attain velocities of 5 to 8 knots, with strong eddies forming along the shore.

### Swinomish Slough:

Swinomish Slough is a dredged channel connecting the waters of Skagit Bay with those of Padilla Bay, 5 miles northward. The southern and northern approaches are well marked and the channel has a project depth of 12 feet from Skagit Bay to deep water in Padilla Bay.

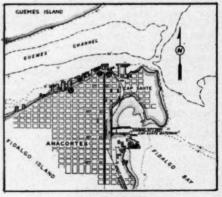
At the northerly entrance there are railroad and highway bridges with horizontal openings of 94 and 100 feet, and vertical clearances of 4 feet and 12 feet, respectively at ordinary high water. At La Conner there is a bridge with a horizontal clearance of 100 feet and a vertical clearance of 6.7 feet at ordinary high water. The signal for opening these bridges is four long blasts.

Small boats and yachts en route between Seattle and the San Juan Islands often use Swinomish Slough in preference to Deception Pass because of the weaker current and more protected channel.

To approach Swinomish Yacht Club at La Conner from the south, enter well-marked channel approximately one-half mile to the west of Goat Island, keeping sharp lookout for rock jetty (under water at high tide) paralleling this channel on the south side. Pass close to north side of Goat Island and proceed through Hole-in-the-Wall and north one mile to La Conner. Club moorings are at floats north of Whiz Fish Company. Guest moorings are available at gas dock at center of mooring floats. Yachtsmen may also tie up at city dock just south of bridge while purchasing supplies.

#### Anacortes:

Anacortes is considered by many an ideal place to moor a pleasure boat during summer months so that within a very short running period yachtsmen



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can be in the heart of the San Juans for weekend cruising.

It is the geographical center of the Puget Sound fishing industry, as it is at the northern end of Fidalgo Island, on Guemes Channel in Puget Sound, 43 miles south of Bellingham, with the San Juan Islands to the westward. Boat moorings, fresh water, ice, gasoline, fuel and lubricating oils, ship chandlery and provisions are available here.

The inner harbor provides the best moorings for small craft.

### **Bellingham:**

Small boat moorings are provided by the Port of Bellingham, one near the center of the city and two on the north side, each accommodating from one to two hundred boats. In addition to these, the Bellingham Yacht Club has constructed a small basin adjacent to its clubhouse at the foot of Cornwall Avenue. Moorings are available here to all visiting yachtsmen, as well as all facilities and services required. Fishermen's Cove at Gooseberry Point, offers private moorage along its 120-foot dock.

Located at the head of Bellingham Bay, Bellingham is the northernmost port of importance in the state of Washington, and is a port of entry for vessels traveling between the United States and British Columbia It is on the east shore of the bay, and across Rosario Strait from the San Juan Islands to the west.

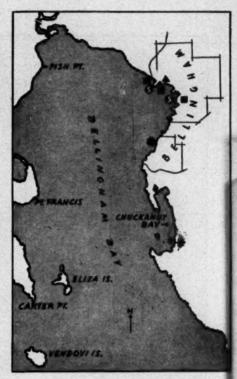
Principal entrance to the bay, which is 12 miles long and three miles wide, is through Bellingham Channel, which extends northward from Anacortes almost to its southern extremity.

Work is continuing on the Port of Bellingham's small boat harbor development. Ultimate capacity of the basin will be 1,000 boats. Now it harbors approximately 300 vessels, both commercial and pleasure craft.

The Bellingham Boat Owners' Association now has its club moorage and club-house at the new port commission boat haven on Squalicum fill.

Small craft and storm warnings are flown on a hillside near the city dock, west of the city center.

The Bellingham Yacht Club has its clubhouse and mooring at the foot of Cornwall Avenue. There are two visitor's floats available but space is limited and visitors at present are asked to limit their stay to three or four days.



BELLINGHAM

Upon completion of the port's boat haven the yacht mooring facilities in Bellingham are expected to be vastly improved. The yacht club serves lunches and dinners week days, dinners on Saturday and Sunday.

### Friday Harbor:

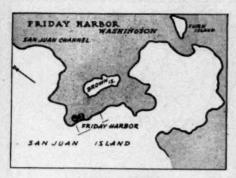
The largest town in the San Juan Islands, its only freight connection with the mainland by water, Friday Harbor sees most of pleasure boating through visiting craft.

These picturesque islands draw hundreds of visiting boats all year long. It is an American custom port for boats crossing into Canadian waters. It is now served by airways from Seattle, which affords persons the opportunity of "catching-up" with a cruise that is already under way.

Friday Harbor is located on the eastern shore of San Juan in Puget Sound, lying north of Port Townsend and north-easterly of Victoria, B. C. Complete facilities for moorage of all types and sizes of fishing and pleasure craft are



SAN JUAN ISLANDS



FRIDAY HARBOR

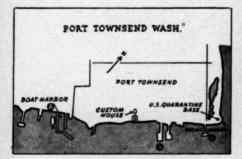
available for visitors. All regular city facilities are found here.

Both the Standard and Union stations maintain floats and proper facilities for serving yachts of all sizes.

#### Port Townsend

is located on Admiralty Inlet at the entrance to Puget Sound, with Whidbey Island lying to the east. The city is about fifty miles east of Port Angeles and it is the second city contacted by shipping from the west. It is also a port of entry or of clearing, and a shelter from rough weather on the Strait of Juan de Fuca.

A boat harbor, mainly for fishing craft but used by pleasure boats, is complete with floats. The boat harbor is well lighted and equipped and is considered to be one of the few enclosed harbors of this type in the Northwest. Members of the Port Townsend Yacht Club keep their boats here. A guest float is maintained for the convenience of all visiting yacht club members. Regular provision and ship supplies are carried by the local stores.



PORT TOWNSEND

A modern Coast Guard craft moors at the harbor and stands ready for call in any case of emergency. Small craft and storm warnings are flown on a high bluff one half mile N.W. of the city center.

#### Port Townsend Canal:

Oak Bay is connected with the head of Port Townsend (bay) by the Port Townsend Canal, which is maintained 75 feet wide and 15 feet deep, and is marked with aids to navigation. The current is strong at times. There are two overhead wire crossings here with minimum clearance of 131 feet at ordinary high water. Speed limit is 5 miles per hour. From May 1 to October 1, 1951, the channel will be partially closed, as it will be obstructed by the falsework of a concrete bridge, making navigation hazardous for boats with tows.

### Quilcene

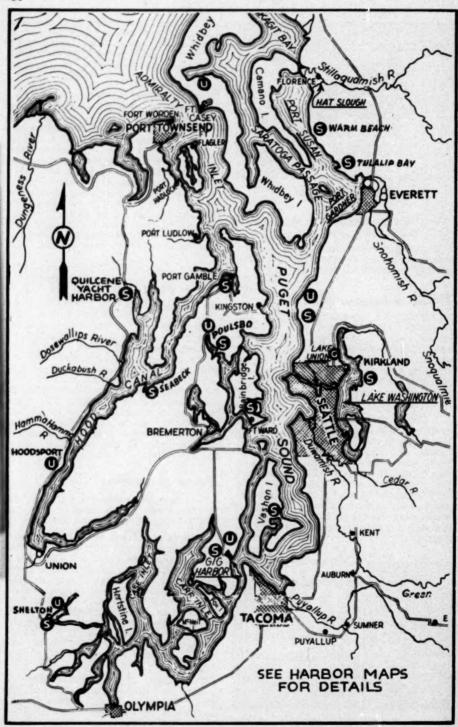
has the only improved harbor on Hood Canal. A new yacht harbor has been constructed on the west shore of Quilcene Bay near the town of Quilcene by the Jefferson County Port Commission. There are permanent stalls for 24 cruisers as well as ample space for visitors and over-night cruise parties. Electricity and marine facilities for gas, oil, water and ice are available. Inside the harbor is a minimum depth of 10 feet of water at extreme minus tide, although at a 1 foot minus tide there is only 3 feet of water at the harbor entrance.

### Port Angeles:

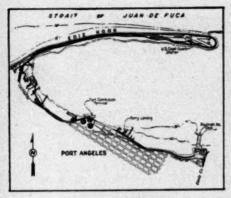
Port Angeles is important to the fishing fleets and to the boats of all types that go outside from Puget Sound.

A large, new boat basin has been recently completed, to offer the finest protection to boats. There are 4,000 lineal feet of floats available with light, power connections and marine fueling stations. The boat haven and Port Angeles Yacht Club landing is just N.W. of the Port Commission terminal shown on the accompanying map. A ship chandlery and coffee shop is located at the boat haven. Complete information on the use of these can be obtained from the Port of Port Angeles.

The City of Port Angeles is located on the southern side of the Strait of Juan de Fuca, 17 miles directly across the Strait from Victoria, B. C. The harbor is made extremely safe by



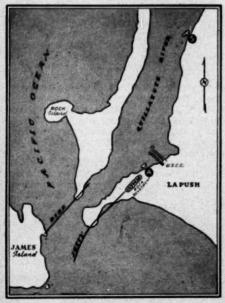
NORTHWEST WASHINGTON WATERS



#### PORT ANGELES

the protection of Ediz Hook Spit, a natural land formation to the west, varying from 100 to 1000 feet in width and extending three miles into the water, giving approximately twelve square miles for safe anchorage at all times. City water is piped free onto the docks. Local stores carry a supply of provisions and there are many machine shops which specialize in motor craft repairs. A marine ways is available for boats up to 90 feet.

Small craft and storm warnings are flown from the 65-foot bluff in the center of the business district.



**QUILLAYUTE RIVER** 

#### La Push:

Quillayute River, located on the Washington coast about 31 miles south of Cape Flattery, is the only refuge for small boats between Grays Harbor and Neah Bay, with the exception of Destruction Island which offers anchorage shelter from offshore winds only. Here is located the village of La Push.

Quillayute River enters the ocean just shoreward of James Island, a wooded rocky island 183 feet high, upon which the coast guard maintains a flashing light and horn fog signals. Two buoys assist visiting mariners to reach the entrance. Dangerous rocks lie along the coast line both north and south of the island and the approach must be made generally from the southwest.

The coast pilot advises against attempting to enter the mouth of the Quillayute River in southerly weather when breakers often form across the entrance, and it further advises persons not familiar with the entrance to lay-to near a red buoy located off the jetty on the east side of the entrance until the coast guard sends out a boat to pilot the craft in. The channel lies close to James Island and a dike which connects the island with a sand spit on the mainland, on the west, or ocean, side of the channel. The controlling depth at low water was about six feet in April, 1948. The river channel is reported to change frequently.

General supplies, gasoline and oil, may be purchased at the La Push dock. The coast guard maintains s life saving station at La Push. Here small craft and storm warnings are flown.

### Grays Harbor:

Grays Harbor has its entrance 40 miles northward from Cape Disappointment and about 93 miles southward from Cape Flattery. It forms an outlet for one of the state's most important lumber and pulp districts. Port of entry is at Aberdeen. Entrance to the harbor should not be made without the use of government charts.

Anchorages may be had anywhere in the channels inside the bay. The best anchorage for large vessels is southward of Sand Island in depths of 35 to 40 feet: Small boat landings are located along the waterfront of Westport, Hoquiam and Aberdeen, and public landings may be made at the port docks which are abreast of the east end of Rennie Island. Dockage may also be obtained farther up the river at South Aberdeen. Public fish boat moorings and a public dock for use of the trolling boat

fleet are provided by the two cities and by the Port of Grays Harbor at Westport.

Ice, provisions and general ship supplies are available. Repairs and marine supplies also draw boats to this port.

Small craft and storm warnings are flown at Westport, adjacent to the fog signal building on Point Chehalis, ½ mile from the ocean on the south side of the Grays Harbor entrance; and at the Port of Grays Harbor dock, half way between Aberdeen and Hoquiam.

Bridges: (Showing vertical clearance at ordinary high water and the necessary whistle signals required to open them.)

Chehalis River:

Union Pacific Ry. 8 feet. Whistle:

West Highway. 8.5 feet. Whistle: ---

Northern Pacific Ry. 9 feet Whistle:

Hoquiam River:

Northern Pacific Ry. 8 feet. Whistle:

Simpson St. 36 feet. Whistle:---

Eighth St. 8. 8 feet. Whistle:-

Northern Pacific Ry. 3 feet Whistle:

East Fork, 3.5 feet, Whistle —

Wishkah River:

Northern Pacific Ry. 8 feet. Whistle:

Wishkah St. 4.6 feet. Whistle: — -

Young St. 6 feet. Whistle: ---

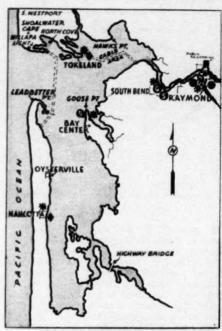
South Bay:

### Willapa Harbor:

is 25 miles long and 11 miles wide at the widest point, with the Willapa River entering at the northerly end. Willapa River is navigable from the Bay to Willapa City, three miles above Raymond, some 20 miles from the bar. Principal cities on Willapa Harbor are Raymond, South Bend, Bay Center, an oyster and crab fishermen's headquarters, Tokeland, a bay beach resort and fishermen's haven, and Nahcotta, gateway to North Beach summer and winter resorts with an unbroken wide hard sand beach 26 miles long.

The entrance is in the northern part

The entrance is in the northern part of the bay, which consists of two arms;



WILLAPA HARBOR

the southern, 16 miles, and the eastern, 10 miles long. Both arms are filled with extensive shoals, large areas of which bare at low water.

Willapa Harbor offers excellent facilities for yachtsmen, the only requirement being the possession of a chart to avoid the shoals. All channels are buoyed. At high water, small craft can travel any place in Willapa harbor. Tide tables are available at any store. Fresh water is obtainable at Tokeland Port Dock, City Dock, South Bend; Port Dock, Raymond City Dock and Public Dock at Nahcotta. General repair shops, long distance telephone stations, fishermen's supply stores and many other traveling conveniences await visitors to the Harbor.

A 450-foot float is available for small craft at the city dock at Raymond.

Small craft and storm warnings are flown two miles from South Bend, toward Raymond; and at the north shore of the Willapa Harbor entrance, on Cape Shoalwater, adjacent to the lookout tower.

### Columbia River Ports

All Washington ports on the Columbia River, Ilwaco, Longview, and Kelso, are shown in the Oregon harbors section this year.

### OREGON

### Harbors

WHILE OREGON'S cruising waters are limited to the coastal area and the Columbia River system, the Oregon customs district boasts nearly 10,000 numbered craft and another 1,000 or so documented vessels, many of which are pleasure craft. Boating has increased rapidly in popularity in the state since the recent war and at present is enjoying its greatest patronage.

Most of the pleasure fleet is based in the Portland area, the greatest concentration of population, and here are located the leading yacht clubs and moorages. However, Astoria, Coos Bay, Depoe Bay, Newport, and Warrenton have moorages where many pleasure craft tie up either as home ports or during cruis-

ing and fishing seasons.

The Oregon coastline is nearly 300 miles long with comparatively few indentations and harbors of refuge. It is rather straight north and south, with broad sandy beaches at the bases of rugged mountain ridges running almost to the ocean. Going south from the Columbia river, the principal harbors available to small craft are Tillamook, 54 nautical miles from Astoria; Depoe Bay, 99 miles; Yaquina Bay (Newport), 110 miles; Umpqua river, 167 miles; Coos Bay entrance, 187 miles; Crescent City, Cal., 290 miles south. Other coastal river entrances are not recommended to pleasure craft because of dangerous bars although some of them can be entered at slack high water by persons having local knowledge.

The Columbia is noted as a broad, fast-

flowing stream, carrying the largest flow of water emptying into the Pacific ocean on the western coast of North America. It has a range of approximately 30 feet at Portland between low water and extreme flood stages and its velocity reaches as much as 5 or 6 knots above Portland during flood periods. During normal low water stages the current flows one to two knots. Tidal effects are felt beyond Portland during low water periods and operators of low-powered craft take advantage of the flood tides when running up the river from the Astoria vicinity to Longview, Portland and beyond.

During the summer months, the soft, sandy beaches of the bars and islands in the lower Columbia are favorite outing spots for pleasure craft. Fishing for chinook salmon is popular in the St. Helens, Portland and Oregon City area during March, April and May, and at Astoria, Longview, Kalama, St. Helens and Troutdale in August and September. Steel head, harvest trout, smelt, and pan fish are sought during their seasons.

Charter boats are operated out of Depoe Bay, Newport, Astoria, Tillamook, and Coos Bay. Marine service stations repair shops, and dealers are located in all of the more populous communities.

An information pamphlet on small boat harbors along the Oregon coast and inland waters is published by the Corps of Engineers, U. S. Army, Portland Maps and detailed information make this a valuable guide to the small boat operator in Oregon.

### Portland

the metropolis of Oregon, with 500,000 persons residing in the area, is situated about 100 miles from the Ocean, on the banks of the Willamette River, a few miles above its confluence with the Columbia River. The center of organized yachting is in the Columbia River north of the city. Here are located four yacht clubs, the Portland Yacht Club, Columbia River Yacht Club, the Oregon Yacht Club, and Rose City Yacht Club.

The Columbia River and Willamette ship channel is at least 35 feet deep from Portland's central harbor area to the ocean, and ranges in width from 500 feet to several thousand feet. United

States Corps of Engineers dredges keep it dredged to project depths at all times, and the Coast Guard has it well marked with navigation aides and lights. Coast and Geodetic Survey charts clearly show the channels.

The channel east of Portland also is well lighted for night operations as far as Pasco, Washington, and has sufficient depth at all points for all types of river craft. Commercial towboats operate daily to The Dalles, Celilo, Umatilla and above.

Visiting yachts usually tie up as guests of the Portland Yacht Club or Columbia River Yacht Club, but visitors desiring to berth close to Portland's business district tie up at the public mooring at the

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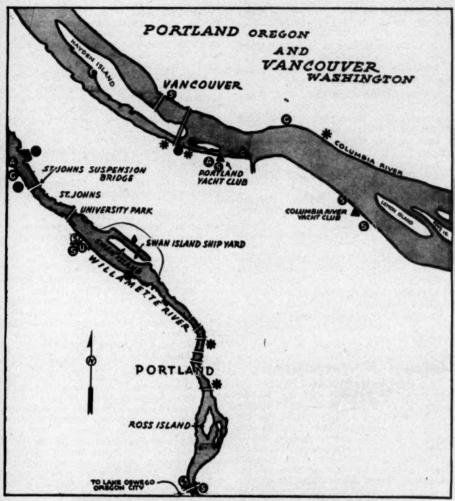


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WEST END OF SELLWOOD BRIDGE

PORTLAND, OREGON

CI. 7505



### PORTLAND, OREGON - VANCOUVER, WASHINGTON

foot of S.W. Jefferson street, just above the Hawthorne bridge. Here they are within a few blocks of the business center.

Portland area is well supplied with marine service stations. The majority of these are located along the Willamette River, but some are on the Columbia River. The oil companies dispense gaso-line and diesel oil at their ocean docks in the Linnton and Willbridge sections, but are not permitted by city ordinance to handle it elsewhere inside the city limits. Diesel oil and stove oil, as well as gasoline, also are available at Portland Yacht Club to visitors from out of the city. Numerous repair yards and shops are available on both rivers.

Bridges in order from St. Johns to Oregon City on the Willamette River with vertical clearance at low water:

St. Johns Bridge at St. Johns. Suspension bridge with 203 feet clearance at low water.

SP&S Bridge at St. Johns. Swing type. 55 feet clearance. Whistle: ———.
Broadway Bridge at Portland: Bascule

type. 90 feet clearance. Whistle: -

Steel Bridge at Portland. Vertical lift, 26 to 164 feet. Whistle: -

Burnside Bridge at Portland. Bascule, 64 feet clearance. Whistle -

Morrison Bridge at Portland. Swing type, 33 feet clearance. Whistle: -

Hawthorne Bridge at Portland. Vertical lift, 50 to 164 feet. Whistle: ——

Ross Island Bridge at Portland. Fixed span, 120 feet clearance.

Sellwood Bridge at Portland. Fixed span. 74 feet clearance.

Oswego Railway Bridge at Oswego. Fixed span, 74 feet clearance.

Oregon City Bridge at Oregon City. Fixed span, 62 feet clearance.

**Bridges** over Columbia River at Vancouver:

Interstate Railway Bridge. Swing type. Vertical clearance 40 feet. Whistle:

Interstate Highway Bridge. Vertical lift type. 39 to 175 feet. Whistle:

Bridges on Oregon Slough at North Portland:

Railroad Bridge. Swing type. 40 feet vertical clearance. (Arrange for opening before arrival).

Highway Bridge. Fixed span. 39 feet vertical clearance.

Bridge over Columbia River at Longview is a fixed arch, 194 feet vertical clearance.

### **Inland Waterways**

in addition to cruising down the Columbia to Astoria and the Pacific ocean, many of the pleasure boat owners of the Portland vicinity cruise up the river to Bonneville, pass through the great lock which has a vertical lift of 65 feet. Personnel are now not permitted to board or disembark from floating craft moored or passing through the Bonneville Dam reservation.

Boats may pass through the locks and continue up Lake Bonneville toward The Dalles, stopping over night in several protected anchorages, such as Eagle Creek, one mile from the dam; Wind River, nine miles; Drano lake, the mouth of the Little White Salmon river, 18 miles; Hood River, Ore., and Underwood, Wash., 24 miles; Klickitat river, 35 miles; Crate's Point. 39 miles.

Beyond The Dalles, the route lies through the Celilo locks and canal for a distance of nine miles, involving two or three lifts and some narrow passages between the banks and commercial barge tows. Miller Island, four miles east of Celilo, is visited annually by a few yachtsmen, but insurance coverage often stops at the upper end of the canal.

Indian relics may be found on Memaloose Island and Miller Island, both of which were camping and burial sites for Indians.

Construction of McNary Dam, near Umatilla, Ore., is expected to provide an excellent new boating area between the dam and Richland, Wash., nearly 50 miles upstream. One portion of the resulting pool will be three miles wide for a distance of 10 miles, with side channels extending up the Walla Walla river and Snake river. Walla Walla Boat Club plans a moorage on the Walla Walla river arm, while swimming beaches and other recreational facilities are planned by the Corps of Army Engineers.

A water rodeo will be held at McKay Dam, seven miles south of Pendleton, on June 17. Sponsor is the new Pendleton Boat Club, who have built a new dock and boat handling facilities here. This club plans to also establish moorings on the newly-forming lake behind McNary dam on the Columbia River.

Small boats often cruise up the Willamette river above the dam at Oregon City, which is negotiated by a set of five locks. The Willamette river is more hazardous in this section because of the presence of rocks and shallow bars in places. Local knowledge or expert pilotage is recommended for these waters. Moorage of the Riverside Yacht Club is

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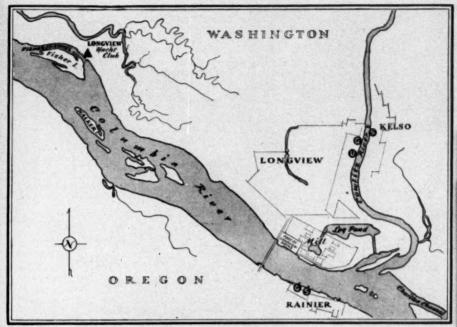


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#### LONGVIEW

about seven miles above Oregon City on the Willamette, near Walnot Eddy.

The Willamotte is navigable for many miles inland for venturesome voyageurs. Flanked by high banks and tall trees it winds through the most fertile land in the state.

Champoeg state park, the birthplace of the Oregon territory, is located on the Willamette river 20 miles above Oregon City dam.

In addition to scattered natural lakes throughout Oregon, boaters are finding the man-made reservoirs being provided by the United States corps of engineers in the upper Willamette valley as boating paradises during the summer.

The Eugene Yacht Club of Eugene, Oregon, is completely land-locked as its moorings are located on Fern Ridge Lake, about 18 miles west of Eugene. This is a man-made lake. Visiting yachtsmen are welcome, and if they are trailing a boat, they are welcome to use the landing facilities at any time.

### Longview, Washington:

Longview is the center of boating activity half-way between Portland-Vancouver and the mouth of the Columbia River.

The Longview Yacht Club club house and mooring is located five miles down river from Longview on Fisher Island channel, a part of the Columbia River. Gasoline, electricity, telephone and moorage is available to all visiting yachtsmen.

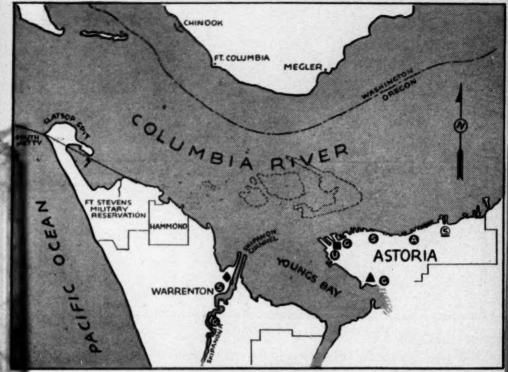
Longview is just westward of the mouth of the Cowlitz River. The Longview Bridge connects it with Rainier, Oregon. It is built around the activities of an extensive lumber development. Fresh water, fuel and diesel oil may be obtained in any quantity.

Longview and Kelso, divided by the Cowlitz River, have several fine marine stores and service facilities which serve the combined area. The Port of Longview has ample facilities for lifting pleasure craft of any size and type to and from the water.

### Kelso, Washington:

Kelso, on the Cowlitz River, has boating facilities and is the annual host to many small outboard and inboard powered boats that are primarily used for fishing.

Cowlitz is a bee hive of activity each spring when the smelt run is on, commercial and pleasure fishermen using every means to accop out the shiny horde.



LOWER COLUMBIA RIVER

### Rainier

the home of an active tug fleet, has two boat yards which are adequate to take care of small craft. One has two marine railways for boats up to 125 feet, and the other has two marine railways for boats up to 175 feet. Diesel fuel is available at Smith Tug Company boat dock. Other services are located at Longview across the Columbia River.

### St. Helens

is located on tidewater, 24 miles below Portland where the Lewis River, Lake River, Scappoose Bay, Multnomah Channel, and the Columbia River have a common junction. There are two small boat moorages with gasoline and diesel fuel available. They also have outboards for rent, marine supplies, fishing tackle, outboard and inboard engine repairs, fresh water, telephone, electricity and taxi service. The moorages are located within 3 blocks of the business district where there are restaurants, barber shops, beauty shop, stores, court house and liquor store.

### Westport

Oregon, a mill-supported community on the Columbia River, has a lot of work boat and pleasure boat activity. Westport has its own boat club, has been active with a Sea Scout ship. Marine fuel service may be obtained here. The boat club has its moorage in Beaver Slough, near Clatskanie, 10 miles east of Westport.

### Astoria

the principal city on the lower Columbia, is located on the south bank of the river, about twelve miles from the Pacific Ocean, and extends from Youngs Bay to Tongue Point.

The Columbia River jetties extend into the ocean at the mouth of the Columbia. Clatsop spit lies to the south of the entrance and Peacock Spit and Cape Disappointment to the north.

A small boat mooring basin with moorages for 400 boats is operated by the Port of Astoria adjacent to its ocean terminal in the west end of Astoria. Construction of breakwater for a large new basin in the east end of the city was completed in 1950. Moorage facilities inside the breakwaters are now being installed and when all are completed there will be accommodations for 1000 boats. Larger boats can usually secure temporary berthage space at the ocean terminal. Transient boats must register at mooring basin offices and arrange for berth.

In addition to these moorages, facilities for fishing boats are numerous adjacent to canneries located along Astoria's waterfront.

The Astoria Yacht Club located in Youngs Bay boasts one of the finest plants in the northwest and can handle 100 or more boats.

Fuel stations, provisions of all kinds, ice, oils, ship chandlery, and all other conveniences are in abundance at this port. Boat yards, engine repair establishments, marine sales centers and complete services are available.

A restricted area has been established in the vicinity of the U.S. Naval Station, Tongue Point, and the U.S. Maritime Commission Reserve Fleet moorage in Cathlamet Bay, Oregon. Passage of small boats into John Day River from the east by way of Cathlamet Bay is permitted.



**ILWACO** 

### Ilwaco, Washington:

Ilwaco is the closest city to the Columbia River bar and it is a great commercial fishing port.

Ilwaco is almost true north of Peacock Spit, is located near North Head and Cape Disappointment, at the south-

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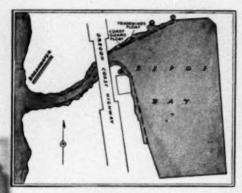
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#### DEPOE BAY

western tip of Washington. It is a most important port at the mouth of the Columbia River, the settlement lying on the north shore.

A new entrance to Ilwaco has been dredged between Peacock Spit and Sand Island.

There is a large basin for small boats and gridirons on which boats can be drydocked. Ice, stores, fishermen's supplies and provisions are available.

Small craft and storm warnings are flown one half mile S.W. of the postoffice on the dock waterfront.

### Tillamook Bay

on the Oregon coast, is 45 miles south of the Columbia River entrance. The bay is 5 miles long, in a north and south direcion, and has an average width of about 1½ miles. A mooring basin for small boats is maintained at Garibaldi by the ort of Bay City. The entrance and inner channels are well-marked, and there a Coast Guard station at Garibaldi. The mooring basin, about a quartermile from Garibaldi, has facilities for servicing commercial boats. Oil, gasoline and water are available.

### Depoe Bay

located on the Oregon coast in the northern portion of Lincoln County, has been closed for the entire summer of 1950, but was officially reopened by an impressive ceremony in April, 1951.

The entrance channel now has a minimum width of thirty feet and a minimum depth of eight feet at mean low water. This entrance is now protected by a sea wall on the north side. Inside, the basin is now 750 feet long with an average width of 375 feet. Here, as in the channel, the minimum depth is likewise eight feet at mean low water.

The basin is now protected by a sea wall on the east side 660 feet in length and by a further wing 90 feet in length on the north end, with an additional wing 50 feet long on the south end. All of the walls extend 13 feet above mean low water.

The northern end of the basin will be used primarily by the United States Coast Guard, the Tradewind Trollers, and the Pacific Trollers, who will maintain their own facilities. In the southern end of the basin and along the east side, several 120-foot finger piers or floats will be maintained for the convenience of the commercial fishermen and the owners of sport cruisers.

Port facilities will be maintained by the Columbia River Packers Association, the New England Fish Company of Oregon and the Yaquina Bay Fish Company. All types of fishery products, ice and fuel are available.



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#### Yaquina Bay

is situated on the Oregon coast, 3½ miles southwestward of Yaquina Head lighthouse and is a tidal estuary. The Bay proper is only the widening of the Yaquina River, just inside the north entrance. Newport, located inside the north entrance is the principal town on the river, and is a port of entry and summer resort.

The north point at the entrance to the Bay is a rounding, sandy bluff, 120 feet high. The old lighthouse tower, and the hotels and cottages near the entrance, are most prominent as daymarks.

The entrance has been improved by the government. Jetties have been built out from the north and south points, and several rocks in the channel crossing the bar have been removed. The bar is lumpy and uneven, with a hard bottom and depths subject to comparatively slight changes.

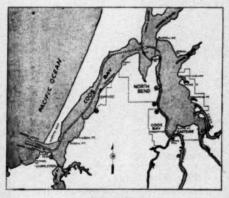
Vessels choose anchorage in the channel at points found suitable to their draft. Moorings are at the wharves at Newport, and at other wharves at Toledo, farther up the estuary.

Water and petroleum products are available at marine service stations. Provisions and ship chandlery are available.

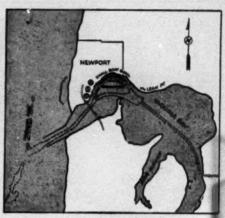
Fuel, fresh water, ice and provisions can be obtained at Newport. New stores and moorages, and several civic recreational events will keep Newport in the boating swim.

#### Umpqua River

and Winchester Bay, 21 miles northward of Coos Bay, on the Oregon Coast, is navigable all year except when breaking seas at the entrance prevent entering



COOS BAY



YAQUINA BAY

or leaving the river. The channel depth on the Umpqua bar is 22 feet.

The Winchester Bay Tidelands pars and boat basin, dedicated last summer has provided easy access to this harbor for sportsfishermen in quest of salmon and striped bass. The channel in the basin proper has been dredged to sifeet at mean low water. A new concret boat loading ramp has been built for trailer-transported boats, with adequate car parking space alongside.

In Winchester Bay there is a Union marine service, with oil, gasoline, and water, a boat charter service, grocer store, tackle shops, sea food stands, four cafes, and three good motor courts.

There is a boat repair yard in Reeds port, five miles up the river.

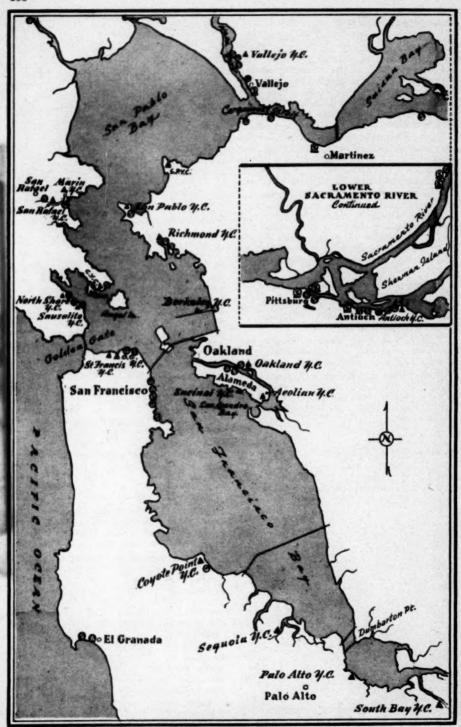
#### Coos Bay

on the Oregon Coast, lies 33 miles northward from Cape Blanco, and 1½ miles north of Cape Arago lighthouse. It is thirteen miles long and one mile wide.

The bay entrance is near the southern part. A jetty, 9,520 feet long, extends westward from the end of the north spit. Another jetty extends to sea from Coos Head, south of entrance. The bar has been dredged, and by this means the channel, across the bar, has been deepened.

The bay, since its improvement, can be used as a harbor of refuge. Small boats can sail it safely except in unusually heavy weather. Ample wharfage can be found at the city of Coos Bay.

Bait can be procured in abundance. Fuel supplies, foods and repair facilities are obtainable along the waterfront.



SAN FRANCISCO BAY

# NORTHERN CALIFORNIA

#### Harbors

YACHTING and small boating is one of the major sports of northern California both inland, on San Francisco Bay and its tributaries and in the mountain lakes.

Starting down the Coast one finds that yachting and small boating has been revived and is most active through the efforts of the Humboldt Bay Yacht Club at Eureka, on Humboldt Bay. A full program of cruises and outboard races is offered during the season.

Across the mountains just above Redding is magnificent Lake Shasta, backed up by mighty Shasta dam. A program of fish planting by various governmental agencies in connection with sportsmen. will assure fine fishing on this lake in just a few more years. Here the Shasta Lake Boat & Yacht Club is active, along with other boat minded residents of the area.

Clear Lake, California's largest body of fresh water entirely within the boundaries of the state, will be busier than ever before with boats and boating.

Again will Lake Millerton, one of the newest boating spots in the state, resound to the roar of inboard and outboard engines. Small boat sailing is a

sport that is also gaining much favor on this lake.

Shaver, Huntington, and Bass Lake, all up in the mountains east of Millerton, above Fresno, will again be thronged with small boats.

Lake Tahoe, the "Lake of the Sky" will be alive with power boats, and there will be a big program of events organized by the Tahoe Yacht Club, and also by the Lake Tahoe Flotilla No. (1, USCGA.

San Francisco Bay and its tributaria will see major cruising events, such a the newly organized cruise to Drak Bay, and Inverness, by the Pacific Inter-Club Yacht Association.

A danger zone has been established in the Pacific Ocean northwest of the Farallon Islands where vessels are asked to stay clear. A naval aircraft bombin range has been established within circle having a radius of 2.5 nautical miles with its center on Fanny Shoot, latitude 37° 49′ 45″, longitude 123° 1° 45″, approximately 2.9 nautical mile northwesterly of Noonday Rock, 12 nautical miles northwesterly of Farallon Light, and 13.9 nautical miles southwesterly of Point Reves Light.

#### San Francisco Bay

with its series of connecting bays, has a length of about 40 nautical miles and widths of from 3 to 10 miles. It has a shore line of more than 200 miles and a water area of about 450 square miles. Although most of the bay is suitable for shallow draft navigation, there are considerable areas of tidal flats drying at low tide. The daily range of the tide is about 6 feet and the most extreme range is about 11 feet.

The approaches to the Golden Gate are through the Gulf of the Farallons, which is about 35 miles long in a northwest and southeast direction, with a greatest width of 23 miles. In approaching the entrance, Point Reyes, Mount Tamalpais, the Farallons, Point San Pedro, and Montara Mountains are all prominent in clear weather.

Outside the entrance to the Golden Gate is a semi-circular bar extending from a point ½ mile westward from Point Bonita to a point nearly one mile fishere and 3 miles southward from Point Lobos. The extreme outer point of the bar is 5½ miles southwest from Point Bonita. The northern point of the bar is shoalest and is known as Four Fathom Bank. The depths over the remainder of the bar range from 31 to 36 feet.

Golden Gate is reached by three channels—the Bonita Channel, which parallels the coast north of Point Bonita; the main ship channel, which crosses the bar and enters the Golden Gate from a southwestward direction; the south channel, which parallels the coast south of Point Lobos. The main ship channel is the one most generally used. This has a width of % of a mile and is a little over % of a mile long between

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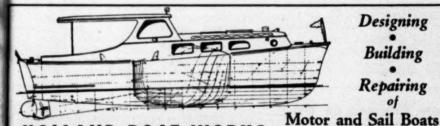
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the outer and the inner 61 fathom curves. The controlling depths are 54 feet in the Bonita channel, 35 feet in the main channel, and 35 feet in the south channel. The depths through the Golden Gate are more than sufficient for navigation by the largest vessels.

North of the Golden Gate the natural channels have ample depth for the biggest yachts into San Pablo Bay, and a dredged channel in this bay affords passage at low water for boats drawing up to 29 feet to Mare Island Navy Yard, and through Carquinez Strait. A channel for smaller yachts also extends from the bay into Petaluma Creek, where bass fishing abounds. Except for these channels, the water in the bay is generally shallow.

The principal communities on the western side of San Francisco Bay proper are San Rafael, Sausalito, and Tiburon, north of the entrance, and San Francisco, South San Francisco, South San Francisco, San Mateo, and Redwood City, south of the entrance. On the eastern side of the bay are Alameda, Oakland, Emeryville, Berkeley and Richmond.

The City of Vallejo at its extreme eastern end lies partly on the Napa River. The Mare Island Navy Yard is located on San Pablo Bay and immediately across the Napa River from Vallejo. It is at the latter town that the Vallejo Yacht Club maintains a spacious clubhouse, with facilities for obtaining water and fuel. It is centrally located to the town of Vallejo where other marine supplies may be obtained.

Northeasterly from the St. Francis Yacht Club, and at a distance of about 7 miles, is the Port of Richmond. The city has a waterfront of approximately 7½ miles extending from Point San Pablo to Point Isabel, near the Contra-Costa-Alameda boundary line. It is in the so-called inner harbor that there are facilities for the provisioning of small boats.

Oakland and Alameda are situated on the eastern shore of San Francisco Bay, opposite the City of San Francisco.

Berkeley Yacht Harbor is located on the east shore of San Francisco Bay, 8½ miles ENE of Fort Point. It is on the north side of the inshore end of the Berkeley Municipal Fishing Pier (formerly the Southern Pacific-Golden Gate Ferry Pier). A measured nautical mile on the north side of the pier is indicated by striped markers.

Municipally owned and operated, the harbor berths some 300 boats up to 100

feet in length, with additional protected space for mooring. It is the home of the Berkeley and the University of California Yacht Clubs. In addition to berthing and anchorage, facilities available include dockside water, electricity, lockers (gear and dinghy), watchman and garbage service.

Privately operated land and marine gas stations, chandlery, marine railways, and hoists are within the harbor area, and available to all boat owners. An emergency crash boat is operated by the City of Berkeley on a 24-hour basis.

There are several islands of importance in the bay, notably Angel Island, northeast of the inner end of the Golden Gate; Alcatraz Island, 1½ miles south of Angel Island and about 1 mile north of the San Francisco waterfront; and Yerba Buena or Goat Island, lying 1½ mile east of the waterfront of San Francisco. Just inside the Golden Gate and south of the channel is the Presidio shoal, while directly north of North Point is Blosson Rock. These are well marked, however, and constitute no serious obstruction to navigation.

Facilities for the accommodation yachtsmen exist mainly in the inner harbor, which consists of a tidal estuary about 7 miles long. It includes the Sar Antonio Estuary, the Brooklyn Basin and the tidal canal connecting the estuary with San Leandro Bay. The westerly end of San Antonio for a distance of about 2 miles forms the entrance channel into the inner harbor and protected by two stone retaining walls from 750 to 850 feet apart. San Leandro Bay has an area of about 440 acre inside the high water line. The bay ignerally shallow and is not used to any great extent for yachting.

In the southerly part of the bay the greatest depths are near the western shore, and the distance between the 3-fathom curves gradually diminishes from about 2½ miles at Point Avisadero to about ¼ mile at the Southern Pacific Railroad crossing at Dumbarton Point.

As the boatman enters San Francisco Bay he will observe on his starboard bow, when he has proceeded approximately 3 miles from Fort Point, the St. Francis Yacht Club. Adjacent to the St. Francis Yacht Club, is the Yacht Harbor, where the boatman may find a temporary berth, fuel, water, and other accommodations. The Yacht Harbor is under the jurisdiction of the San Francisco Park Commission.

Directly across the bay from the St. Francis Yacht Club, in a northerly direction, is the San Francisco Yacht Club.

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This club is in sheltered Belvedere Cove, a distance of about 5 miles from the St. Francis Yacht Club.

About half a mile in a southeasterly direction from the San Francisco Yacht Club is the Corinthian Yacht Club. As with the San Francisco Yacht Club, the Corinthian has a large clubhouse and float.

Up the Oakland Estuary about 8 miles from San Francisco, at the foot of 19th Avenue, is the Oakland Yacht Club. Here are maintained all necessary facilities for servicing yachts with a commodious yacht basin, and a club house.

The Aeolian Yacht Club is located on San Leandro Bay at the south and of Alameda. Here is a well equipped yacht harbor, with all necessary supplies available, and a commodious clubhouse.

Boats may proceed to the mouth of Alviso Slough, on which is located the South Bay Yacht Club, near the town of Alviso. A clubhouse is maintained here, with fuel and water available.

North from Alviso and the South Bay Yacht Club, on the western shore of San Francisco Bay, about 30 miles from the St. Francis Yacht Club, is located the Palo Alto Yacht Club, a well sheltered harbor, and with full facilities for servicing yachts.

There is a measured nautical mile on the Oakland estuary side of the Western Pacific Mole at Oakland. It is set with steel and concrete posts and markers, on an East-West course running from the Bay end of the mole one mile up the estuary to the Oakland Garbage pier.

The measured mile was installed by the Port of Oakland at the request of the Oakland Junior Chamber of Commerce.

There is another measured mile, which is unofficial, along the San Francisco side. It is unmarked, but stretches from the east side of the end of Van Ness Avenue to the West side of Baker street.

#### Restricted Areas

Mariners operating small craft in these waters should keep in mind that a number of restricted areas exist in waters adjacent to military installations and areas where military and other government craft are berthed or moored as well as seaplane landing areas. They are:

Carquinez Strait in the vicinity of Benicia arsenal, Benicia—Waters within 100 yards of the shore line or of the wharf. Suisun Bay at Port Chicago, naval magazine restricted area—Waters in the general vicinity of the shoreline at Port Chicago.

San Pablo Bay—Waters within 100 yards of the shore line or general installations at the Mare Island Navy Yard.

Alcatraz Island—All the waters within 200 yards of the shore line of Alcatraz Island.

Submarine operating area north of Alcatraz Island—A rectangular area lying due north of Alcatraz I. and south of Angel I. is used intermittently by submarine. A patrol boat will warn passing vessels.

South San Francisco seaplane landing area.—This is an irregularly-shaped area lying in the vicinity of South San Francisco and the S. F. municipal airport and extending more than a nautical mile offshore.

Alameda seaplane landing area—Cortain waters lying south of the naval air station at Alameda. Watercraft may pass through the northerly part of the seaplane restricted area in a channelway side of the breakwater, protecting the turning basin at the Naval Air Station, turning at the western end of the breakwater, in a northwesterly direction, and connecting with the channel to the turning basin.

Naval Air Station, Alameds — The waters of San Francisco Bay within 100 yards of the Naval Air Station, Alamed which is closed to navigation; and the waters of the entrance channel to Oaland Inner Harbor (San Antonio Eduary) between the westerly end of the rock wall on the south side of the channel and the easterly boundary of the channel, which is open to ordinary navigation only. Mooring alongside wharve on the Oakland side of the channel is permissable.

Molate Point Naval Fuel Annex—An area in the vicinity of this point is closed to ordinary navigation.

Pinole Shoal Channel, San Pablo Bay— The use of this channel is reserved for vessels drawing more than 20 feet.

#### Sausalito

is situated some two miles northeast from the Golden Gate Bridge. Picturesque Sausalito has much to offer the boatman. First to be sighted as the boatYOUR BOAT FOR SALE

man traverses the Sausalito waterfront is a modern and able boat yard. Here are located boat repair facilities and marine ways.

A half mile further on the waterfront is located the old building of the San Francisco Yacht Club, now being occupied by the Sausalito Yacht Club. In this building is located a bait and tackle shop, where sport fishing gear may be obtained, and where fishing parties may be arranged.

Still further along is the Sausalito Yacht Harbor, where is berthed a large fleet of yachts. This facility is operated by well-known shipbuilders.

Next to be sighted by the boatman as he cruises northeast along the waterfront is another yard where are located complete facilities for new construction and repairs to boats, engine installations, and repairs, fuel and lubricating oils.

Other facilities follow, where new construction and repairs can be undertaken.

To the north is a large establishment where new construction in both steel and wood is undertaken, as well as all kinds of boat repairs, engine installations and repairs. The company has a marine filling station providing marine fuels, diesel oil and gasoline and marine lubricants.

#### San Rafael

is located at the head of navigation on San Rafael Creek, a small tidal stream about 2 miles in length. The creek is improved by a dredged channel 100 feet wide and 8 feet deep across the tide flats in San Francisco Bay to the mouth of the creek, and by a channel 60 feet wide and 6 feet deep from the mouth to Erwin Street in San Rafael.

There are two yacht clubs which make headquarters in San Rafael: the San Rafael and Marin Yacht Clubs.

#### Belvedere Cove

lies about 3 miles easterly from Sausalito, at the southern end of the Tiburon Peninsula. Approaches to the cove are in deep water, and depths within the cove range between 2 and 16 feet.

Two of the largest yacht clubs in San Francisco Bay are located here—Corinthian and San Francisco. Other moorages and terminals enhance its importance. Water and petroleum products are available.

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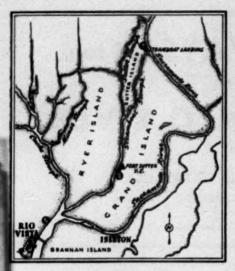
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#### RIO VISTA STEAMBOAT SLOUGH AREA

#### Pittsburg

s the location of a yacht and general oat repair harbor. There is a harbor onsisting of approximately three square cres of harbor space dredged to a 21-oot depth. Ways are large enough to acommodate fishing boats and yachts. Adjoining the harbor is a 60 by 120-foot oncrete machine shop complete with athes, milling machines, shapers, presure drills and many other small tools.

#### Rio Vista on Steamboat Slough

one of the most important cruising greas on the lower Sacramento River Region. It is the mecca for most cruising yachts during the hot summer season.

Rio Vista, a small river town, is approximately 60 miles northwest of San Francisco. Here are both public and private yacht mooring facilities, gasoline and diesel fuel, fresh water, marine supplies and repairs, ice, and groceries.

Three miles above Rio Vista is the entrance to Steamboat Slough, a wooded, picturesque rendezvous for yachtsmen, the scene of an annual Pacific Inter-Club Yacht Association cruise. Three and seven tenths miles up the slough, and behind a sheltering island, are the private moorings of the Fort Sutter Yacht

Club. Here are available Standard Oil marine fuels and lube oils. Draft of vessels is limited to four and a half feet at mean low water entering the cut leading to the yacht club facilities. Here will be barbecue and other facilities for visiting yachtsmen.

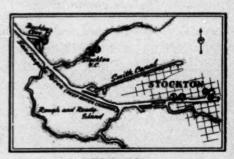
Continuing seven miles from the Fort Sutter Yacht Club is Steamboat Landing, where yachtsmen leave their boats all summer and spend vacations and week ends aboard. Here are groceries, fresh water, and gas and oil.

#### Stockton

is the metropolis of the San Joaquin River delta, located 40 miles above the river entrance to Suisun Bay. It is an important boating and yachting center and an up-river terminus and rendezvous for many San Francisco Bay boatmen. Calaveras River joins the channel to the north.

Entrance from the Pacific is made through the Golden Gate into San Francisco Bay, sailing north and eastward through San Pablo Bay into the Carquinez Strait, which connects San Pablo Bay with Suisun Bay, to the mouth of the San Joaquin River. The boatman proceeds up this river to the city of Stockton, a distance of forty miles.

An anchorage is provided by the Stockton Yacht Club. The Yacht Club harbor is located at Smith's Landing, one mile up the Calaveras River. The Club offers the hospitality of its moorings to all yachtsmen who visit the inland city from downriver points. Fuel stations and all regular city facilities are available to visiting boatmen. Fishing, hunting, boating and other information of any of the streams in the San Joaquin delta can be secured from the Stockton Chamber of Commerce.



STOCKTON

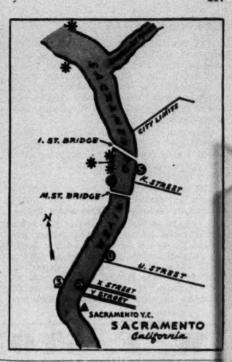
The Ionic Sailing Club now possesses a floating clubhouse that is anchored in Buckley's Cove adjacent to the Stockton deep water channel and 5 miles west of Stockton. The club does not have any berthing facilities but has an excellent harbor for mooring. Also located here is a small boat yard, a city-owned boat launching ramp, and a boat mooring and berthing area.

Emergency supplies of gas and oil can be picked up at Venice Island on Little Connection Slough at Hesman & Helen's.

#### Sacramento

Capital city of California, Sacramento is rapidly coming into her own as a popular boating center. Many new facilities accommodate a growing local fleet and the many visiting craft.

Sacramento is located on the bank of the Sacramento River below the mouth of the American River and about forty miles from the river delta into Suisan Bay.



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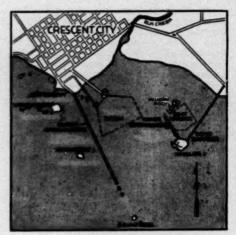
#### Crescent City

is the northernmost California port offering facilities for motor boats, is situated on the north side of a small rocky bay about three miles S. E. from Point St. George. The city is located on the Redwood and Oregon Coast Highways, about fifteen miles from the California-Oregon border.

Crescent City harbor is a small crescent-shaped bay open to the south and is about 1 mile long and one-half mile wide. The outer and inner harbors are protected by breakwaters.

The approaching mariner should carry charts to direct him over the many dangerous rocks above and under water.

A wharf is built out from the town and vessels moored off the wharf are loaded by means of cranes on the dock; the largest crane is capable of lifting 10-12 tons. Small craft not exceeding this weight are hauled out for repairs, etc. Repairs to machinery of small launches only can be made. A consider-



CRESCENT CITY

able number of fishing vessels use the harbor and avail themselves of the wharf facilities.

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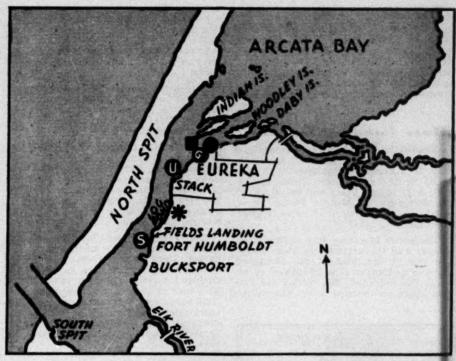
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#### EUREKA

#### Eureka

is the principal shipping point on Humboldt Bay. The harbor is land locked on the coast of California, 206 nautical miles and 60 miles south of Crescent City. Eureka is reached through the bay from the main channel, through an almost straight natural channel which has been improved by dredging.

Visitors should contact the Coast Guard Base when attempting to cross the bar in heavy or rough weather. When entering in fair weather with a heavy craft, come in on the slack flood or low ebb, it is advised by local mariners.

The Humboldt Yacht Club has been forced to vacate its clubhouse and have not yet found a suitable site to rebuild. They have, however, installed a launching ramp at Eureka's proposed new waterfront recreational area, adjacent to the small boat basin. Gasoline, oil, fresh water and ice may be procured adjacent to the Yacht Club. Most of these facilities will be open seven days each week. Union, Standard, Mobiloil, Signal, Shell and Texaco stations serve visiting craft.

#### Noyo (Near Fort Bragg

is 33 nautical miles north of Arena Cove and about 89 miles south of Humboldt Bay. Despite headlands the harbor is exposed to ocean swells. The occasional storms from the southeast to southwest are considered the most dangerous to small craft. Improvements authorized call for breakwater 1100 fet from south headland and an entranchannel into Noyo River 10 feet deep and 100 feet wide, extending to highway bridge. Another half-mile extension is recommended, and the state is relocating highway.

#### **Bolinas Bay**

a minor Coast Guard station, it is about 10 nautical miles north of the Golden Gate. Bolinas Bay is an open bight 3½ miles long and ½ mile wide, and affords shelter in northwesterly weather. The shallow Bolinas Lagoon is separated from the bay by a strip of sandy beach that is cut by a narrow shifting channel near the bluffs shout the middle of the bight.

#### Half Moon Bay

the northern arm of Half Moon Bay lies east of Pillar Point, 19 nautical miles south of the entrance to San Francisco Bay. Partial protection from northerly storms is afforded. Water and petroleum products are available for small craft at Princeton, a fishing village on the bay.

#### **Moss Landing Harbor**

is located midway between Santa Cruz and Monterey on the shores of Monterey Bay. It is easily distinguished from seaward by the six smoke stacks of the P.G. & E. Steam Plant and the stack of the Permanente Metals Plant. These marks are visible 12 to 15 miles in good weather.

The entire Monterey Bay is free from danger and the entrance to Moss Landing lies at the head of the Monterey Submarine Canyon. The 50 fathom curve is at the entrance. The jettles are 600 feet apart and narrow in the channel to



MOSS LANDING HARBOR

400 feet. The channel itself is 200 feet wide on the bottom and the water is not less than 15 feet at mean lower low water. A lighted bell buoy marks the entrance and both courses of the channel are marked with range lights as well as buoys.

The harbor consists of two arms, one south and one north of the entrance. At present only the south arm has been developed. The harbor is land-locked and safe in all weather.

Standard Oil Company and Union Oil Company provide fueling facilities. Light, power, water, ice, general provisions and stores are available. Mooring is congested and is in charge of John Woolsey, Harbor Master. There are 5 piers on the westerly side of the inner channel yacht club.

The Elkhorn Yacht Club is now located on the inaccessible north arm of the harbor. Until proposed development occurs, visiting yachts are requested to stop at the Union Oil dock which is the first pier to starboard on entering. The club house can be reached by long distance telephone through the Watsonville exchange. It is reported that a dredging project in the north arm is planned for 1951.

#### Santa Crus

is located on the northern shore of Monterey Bay and has an open-ocean outlook, where the California coast curves to the eastward. The famous Sequola forest of giant Redwoods is in this vicinity.

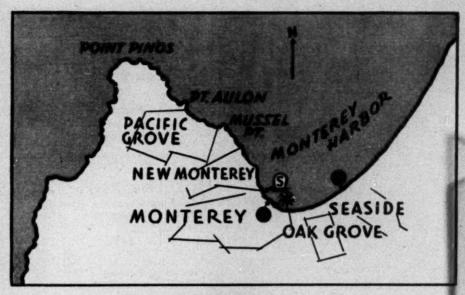
Entering the harbor in good weather is not difficult, but with northwesterly winds a heavy swell sometimes sweeps around Santa Cruz Point and into the bay. In southerly weather there is no protection, and vessels are obliged to leave port.

The municipal wharf extends 2,745 feet out to the depth of 31 feet at low water. The city maintains a public landing, free to all visiting and local guests, from March to October. In winter the float is hauled up on the wharf.

Oil, gasoline, water, ice and general supplies can be obtained at Santa Cruz.

Repair shops and shipyards are in the vicinity of the harbor.

Santa Cruz is a popular beach resort and yearly attracts hundreds of visitors to its scenic harbor.



#### MONTEREY

#### Monterey

is a broad open roadstead, 26 miles long and 9 miles wide, lying between Point Pinos and Point Santa Cruz—its southern and northern extremities. A prominent feature from seaward is the low sandy shore, backed by sand dunes or low sandy bluffs, and extending eastward from about the middle of the Bay, which forms a break between the Santa Lucia mountain range southward, and the high land of the San Francisco Peninsula northward.

The Bay is free from dangers, the ten-fathom curve lying at an average distance of three-fourths mile off-shore; the lead is a guide in thick weather.

A submarine valley heads near the middle of the bay with a depth of over fifty fathoms about three-eighths mile from the beach, near Moss Landing, on the eastern shore.

Santa Cruz Harbor and Soquel Cove offer shelter from the northwesterly winds, and Monterey Harbor from southeasterly winds.

There are two commercial wharves; the municipal is built out in the southernmost part of the bight to a low water depth of 25 feet; the oil wharf, ½ mile nearer Point Pinos, with 36 feet alongside, is used by large vessels loading fuel oil. In case of heavy westerly

swells, vessels at the dock must be breasted off, mooring buoys being provided for this purpose. There are two wharves eastward of the steamboa wharf which are used by fishermen and bathers, and are available for moto boats.

Gasoline, diesel oil, lubrication an fuel oils are obtainable. There are gastations on the wharf. Several marine supply stores and boat yards are also here. All kinds of provisions for boatmen are available. Fresh water is piped to all the wharves. Ice and bail in abundance is provided for fishing boats by plants along the waterfront.

Monterey has the nation's largest sardine fishery and is one of the most important fisheries locations on the Pacific coast. Monterey is an old Spanish town, rich in historical interest. The old Custom House, the Governor's home and the house occupied by Robert Louis Stevenson still stand. An old Spanish mission is in the town, and that of Carmel is a few miles to the southwest.

Visitors to "Old Monterey" should not miss the Del Monte Hotel with its beautiful grounds and shops. A polo field and fine golf course are its other attractions. The famous Seventeen-mile drive to Cypress Grove and Point Lobos, including a visit to the old Carmel Mission, (and art colony nearby) are pleasures long to be remembered.

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# SOUTHERN CALIFORNIA

#### Harbors

A LTHOUGH the coast of California is generally rugged and mountainous, there are numerous bays and shallow tidal basins which offer harbors of refuge for small boats.

The larger harbors include San Diego, Newport, and Los Angeles-Long Beach, although there are many fine small harbors being developed to accommodate the rapidly-growing Southern California fleets.

There are few shoals or dangerous reefs off the Southern California coast. The principal islands offshore are the Santa Barbara group. The most-visited is the world-famous Santa Catalina Island, 21.7 miles offshore from Los Angeles, which offers a year around playground for yachtsmen. Cruises are also made to other of the offshore islands.

Because of the mildness of the climate, boats are never laid up in the winter time. However, the rainy season begins about November and continues until April, and few ocean cruises are made at this time. From May until Christmas the Southern California yacht clubs hav? a crowded schedule of events and cruises.

The largest ocean sailing yacht race in the world, in regard to the number of boats participating, is the race from Newport Harbor to Ensenada, Mexico, which has become an annual event in May. The longest ocean race in the world, the Transpacific Race from Los Angeles to Honolulu in the Hawalian Islands, is held on the odd-numbered years.

A detailed guide to waters of the California coast is the information pamphle published by the office of the division engineer, South Pacific Division, Oaklar Army Base, Oakland, California, entitled "Small-boat harbors and shelters, Coast of California."

Twenty danger areas have been established near the coast of Southers California, in the vicinity of the souther California islands. These areas are deignated as firing or danger areas and may be used regularly or intermittently "Notice to Mariners" issued by the district commander, 11th Coast Guard district, carries regular announcements on the active use of these areas, and are described in detail in notice No. 32-50 July 28, 1950, and following.

There are three offshore danger zone in the vicinity of Point Fermin, White' Point, and Point Vicente. When firing is in progress safety observers will be maintained to warn all vessels.

Any inquiry about these danger and firing areas should be addressed to the Commandant, 11th Naval District, San Diego.

#### Los Angeles

is ideally situated and its fine sheltered Harbor is fully equipped to meet every need of the yachtsman and small boat owner.

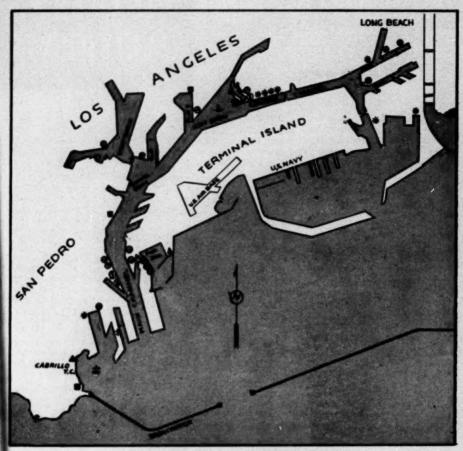
In approaching San Pedro Bay, each entrance to the breakwater is marked by a lighted sound buoy (no specific navigational information.)

All classes of vessels, both inbound and outbound, should pass these buoys to port. Vessels should shape courses to approximately north or south before passing buoys and proceed at speeds no greater than is necessary for steerage while negotiating the entrances.

A hazard is the separation of ocean and inland boundaries right at the breakwater. Vessels exchanging sound signals there may only confound a collision situation.

Vessels en route to Newport and not desiring to go out and around the approach buoy may, of course, run inside the harbor to an exit at the eastern extremity of the new breakwater toward Seal Beach.

During the last few years, vast improvements have been made for the yachtsman in the East Basin, where tidelands were reclaimed by filling to provide large car parking areas and sufficient frontage to moor in excess of 600



#### LOS ANGELES AND LONG BEACH

yachts. Small boats may also anchor in the Outer Harbor area adjacent to Cabrillo Beach. There are a number of yacht landings to serve the boat owner.

The Cabrillo Beach Yacht Club has a clubhouse at the foot of Miner street in San Pedro. There is a pier with a hoist and an electric winch with a capacity of 2000 pounds available for launching small boats.

The Los Angeles Yacht Club is located on the mole at the foot of Barracuda Street, Terminal Island, Los Angeles Harbor. The club maintains an anchorage, a clubhouse, lockers for yachting gear, equipment for lowering and lifting small and medium-size sailing boats and yachts from the water, and has space available for the storage of small boats and the parking of automobiles. Yachtsmen frequently have the courtesy of the club facilities, along with the Los Angeles Yacht Club membership, for spe-

cial regattas and yacht races and for entertainment within the clubhouse. Two or three moorings are available to visiting yachtsmen which may be reserved by prior telephone call to Burdick H. Eaton, Port Captain, Dunkirk 3-1901. The anchorage is undergoing extensive dredging, as a result of which all moorings have been laid on the dock, and the exact date on which the club will again be in commission has not yet been established.

There are two public landings in Los Angeles Harbor, one located at the foot of Avalon Street in the Wilmington District at Berth 186, and the other at the foot of First Street in the San Pedro District at Berth 89, as well as the Cabrillo Beach pier at the foot of Thirty-eighth Street, San Pedro. There are ample parking facilities for the parking of automobiles adjacent to each of these locations.

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Several small boat building and marine repair yards are maintained in Los Angeles Harbor as well as marine equipment stores.

Cerritos Channel is spanned by two bridges, the Commodore Schuyler F. Heim highway bridge, and the Henry Ford (Badger) Avenue railroad and highway bridge approximately 130 feet westerly. From 7:30 a.m. to 8:00 a.m. and from 4:30 p.m. to 5 p.m., except Saturdays, Sundays, and holidays, the draw of the Commodore Schuyler F. Heim bridge shall not be opened for the passage of vessels except in case of emergency. The draw of the Henry Ford Avenue bridge shall be opened with the least possible delay at any time on receiving the prescribed signal, two short blasts followed by one long blast. The call signal for opening both bridges at one time is three long blasts.

The Commodore Heim bridge is a lift span for highway traffic, horizontal clearance at center 180 feet, vertical clearance above m.h.w. 52.9 feet. The Henry Ford bridge is a double leaf bascule for railway and highway traffic, horizontal clearance 180 feet, vertical clearance above m.h.w. when closed, 12

feet.

Boats can enter Los Angeles Harbor via the Main Channel and the East Basin Channel and reach the sea by sailing through the Cerritos Channel and out the Long Beach entrance, or vice versa.

The strategic location of Los Angeles Harbor makes it ideal for a cruise to any point in the Pacific Ocean, and affords the small boat owner the advantage of making trips to the romantic islands off the California Coast: Catalina Island, the Santa Barbara Islands, the San Clemente Islands, and others not too far distant for small boats.

Many yacht races center in Los Angeles Harbor annually, such as the San Clemente Island Race, the Around Catalina Race, the Southern California Midwinter Regatta, the International Star Boat Championships, and the start of the Honolulu Race.

There are two restricted areas in the vicinity of Terminal Island. One is a

seaplane landing area 525 yards wide running from the dredged channel to Fish Harbor to the Long Beach Harbor entrance channel. The other is the fleet operating base, including all waters between the Navy mole and Terminal Island to the westward of 118°13′10″.

#### Long Beach,

California's newest major port, has taken its place among the leading ports of the United States. The outer harbor has been developed from a sandy beach to a major port, while the development of the inner harbor which was taken over by the City of Long Beach in 1916, is being continued at an accelerated pace. At the present time the port has a \$100,000,000 development program within 20 to 25 years.

The port is principally a commercial harbor catering to vessels of the 10,000 ton class. There are three private yacht landings in the Port of Long Beach. They are located at 1700 West Ninth Street, 1500 West Eighth Street, and 1550 West Seventh Street.

There is a public launching ramp for small boats located at the foot of Golden Avenue. This has proved a great boon to the small boat owner with a trailer. Another major accomplishment of the city has been the completion of the Magnolia Avenue Pier located at the foot of Magnolia Avenue. All of the facilities are not yet in. However, space will be provided for scenic excursion boats, sportsfishing, rowboats, speedboat rides, and pier fishing.

With the future development of Alamitos Bay, small craft will be provided with an outstanding protected harbor, anchorage, and marine service.

The call signal for opening the draw on the pontoon bridge at the entrance channel to Long Beach inner harbor is one long blast followed by two short blasts. This signal shall be acknowledged by two long blasts followed by one short blast when the draw can be opened immediately, and by two long blasts when the draw cannot be opened immediately.

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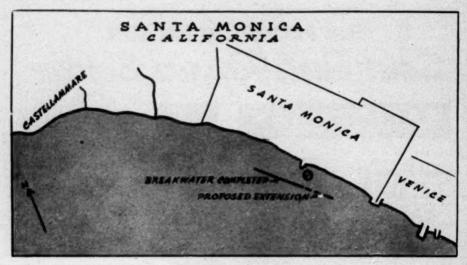
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#### Santa Monica

affords the only protected shelter between Port Hueneme and San Pedro. This harbor is the nearest ocean point to the center of the city of Los Angeles and survey shows it to be the closest point to the residential section of the majority of Los Angeles County yachtsmen. Its famous white sand beach is one of the most used in the southland. Many beautiful homes owned by the motion picture colony are built on the beach and on the bluffs above.

When entering the Harbor from the east end, all vessels must proceed with caution in passing the heads of the docks and observe the speed limit imposed by port authorities.

The breakwater parallels the shore and is 1800 feet off shore. The harbor has moorings and storage spaces for all. A Harbor Guard is always on watch to insure protection and service to boats and owners.

Information relative to the Yacht Clubs and Associations can be obtained from the Harbor Office on the end of the Municipal pier. The Yacht Club float and landing is located on the northwest side of the pier.

Gasoline, diesel oil, lubricants and rock gas can be obtained in any quantity. Boat yards and ship chandleries capable of rendering complete repairs are located on the Santa Monica pier.

Santa Monica is a recognized boat anchorage and no night lights are required on boats up to 65 feet.

The Malibu Yacht Club is located at Paradise Cove, known on the charts as Dume Cove, just in the lee of Point Dume. This is 18 miles N. W. of the city of Santa Monica, just east of Malibu, Calif. A Shell marine station (location not shown on the accompanying map) is also located at Paradise Cove.

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#### Morro Bay Harbor

is a landlocked bay which lies almost midway between San Francisco and Los Angeles Harbors. It affords excellent protection in any weather. The entrance channel is 16 feet deep and 350 feet wide, and it is advised to make a straight-in approach during heavy weather.

Limited supplies are available. Although there are no marine service stations, gasoline is available to vessels drawing less than 6 feet. Diesel fuel is not available locally. There is a ways for vessels up to 40 feet and facilities for making boat and engine repairs.

# SANTA PARVANA AMERICANS OCEONOS OCEAN PACIFIC PACIFIC OCEAN PACIFIC PAC

SANTA BARBARA

#### Santa Barbara

is situated on Santa Barbara Channel, facing south. It is northeast of La Vigia Hill, forty miles east from Point Conception and thirty miles west-northwest from Point Hueneme. The islands of Santa Cruz, Santa Rosa, San Miguel and Anacapa lie across the channel, about-25-35 miles to the south.

La Vigia Hill, 592 feet high, is the distinguishing feature when approaching from the east or west. Santa Barbara Point is a high cliff and the eastern limit of a narrow tableland upon which Santa Barbara lighthouse is located. Goleta Point is six and one-half miles west of Santa Barbara Point and is low and terminates in a 30-foot high cliff. Point Conception, a bold headland 220 feet high is found at the west end of Santa Barbara Channel.

At the present there is harborage for some 300 boats.

Persons living in the Westwood-Beverly Hills sector are finding the Santa Barbara "drive" an easy one to their boats

Limited facilities, to be improved and augmented, include Stearn's wharf, Navy pier (partially available to the city), a float for small craft landing and mooring spaces for small pleasure craft. The moorage is generally crowded, and more space is dependent upon additional dredg-

Facilities of supply are generally available at Santa Barbara.

#### Port Hueneme

situated on the southern California coast at the southeast end of the Santa Barbara Channel, is one of the newest man-made harbors on the Pacific coast. It is 59 miles northwestward of Los Angeles-Long Beach Harbor and 28 miles southeastward of Santa Barbara, It is contiguous with Hueneme and within a few miles of Oxnard and Camarillo, agricultural communities of the district.

The entrance is bounded by an east and west jetty, the former running southward and the latter southwestward.

Port Hueneme is still in the hands of the Navy with the exception of the small portion known as Dock One. Use of Dock One is almost entirely commercial. Fish are landed and a few sports fishing boats are allowed to operate. It is stated that room is limited and the harbors use by pleasure craft is frowned on except in case of bad weather or other emergency.

A danger zone has been established in

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Port Hueneme, to include the waters of Anaheim Bay Harbor between the east and west jettles at the U.S. naval ammunition and net depot at Seal Beach and the contiguous tidal channel and basin as far east as the Pacific Electric Railway bridge.

The regulations:

(1) Transit is prohibited to all but regularly documented vessels and power boats having a certificate of award number. Sailing vessels shall use auxiliary power in Anaheim Bay proper. Rowboats, canoes, landing, and stopping except in actual emergency are specifically prohibited.

(2) All boats shall proceed as expeditiously as possible by the shortest practicable route through the danger zone. Fishing, landing, and stopping except in actual emergency are specifically prohibited.

(3) Passage shall be made only upon the express permission of the depot duty officer in each instance, date and time of expected return to be given. Permission should be obtained not less than one hour before seaward transit. Day-time passages are recommended.

(4) All craft of whatever category shall have the right at any time to seek shelter in these waters because of stress of weather.

Nearly all Ventura County Boat Club boats are now moored at Santa Barbara due to lack of facilities in this port. Formerly a few boats have been moored in the open sea near the Ventura pier during the summer months. The club has met with some success with the State of California over the use of a portion of the end of the Ventura Pier for small boat launching, and permission to install a ladder and skiff has been obtained. However, the landing stage has been leased to an oil company and is not available. Anyone finding it necessary to stop at Ventura will be given all possible help by State Park employees and the Ventura County Boat Club.



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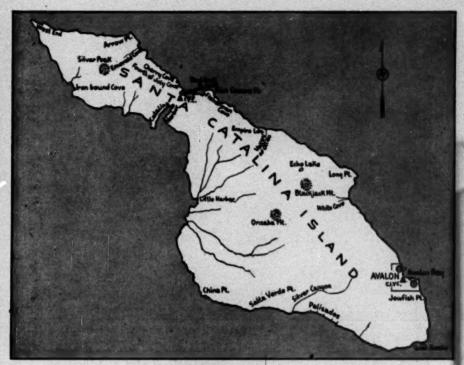
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CATALINA ISLAND

#### Catalina Island

is 21.7 nautical miles southward from San Pedro. It is 18½ miles long in an east and west direction with a greatest width of 7 miles. It is rugged and mountainous. The island rises abruptly from deep water, the 30-fathom curve lying close inshore.

Avalon Harbor is on the north side of the island 2½ miles from its eastern end. It is about ½ mile by ¼ mile in extent, and affords anchorage in 8 fathoms, sandy bottom; there is a 20-fathom depth immediately outside the points of the cove. The shelter is good in all weather except during the winter, when rare northeasterly winds sometimes make trouble.

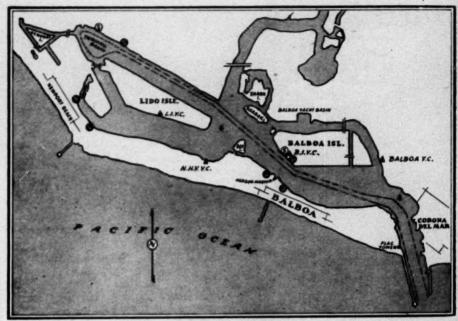
Avalon Harbor or Dakin Cove as it is more commonly known, is the favorite rendezvous on Catalina Island for all Southern California boatmen. Practically the entire harbor is available for boat anchorage and is fairly well sheltered from all but ground swells. The Catalina Island Yacht Club is located to the north of the main pier a short distance beyond the Tuna Club. A public landing dock for small boats is provided at the pier south

of the main dock. Oil may be secured at the station just south of Sugar Loai Point.

White's Landing, 3½ miles westward from Avalon, affords an 8-fathom anchorage, with protection similar to that of Dakin Cove. Isthmus Cove, on the north shore 6 miles eastward from the western end of the island, affords shelter for motor boats in southerly weather but is dangerous in northwesterly. There is a landing-dock here. Catalina Harbor, on the southern side of the isthmus separating it from Isthmus Cove, affords shelter for motor boats except in southerly weather. It is funnel-shaped, about ¾ mile long. It is free from hidden dangers and easy of access.

Situated as it is and recognized as a true fisherman's paradise, Catalina offers the deep sea fisherman from April to October the thrill of a lifetime: yellowtail, blue fin tuna, barracuda. white sea bass and black sea bass. Marlin and broadbill swordfish through July, August, September and October: a variety of smaller fish the year around.

There is a seaplane restricted area in the vicinity of White Rock, near Avalon.



#### NEWPORT HARBOR

#### Newport Harbor

entrance is 20 miles distant from Los Angeles, Long Beach Harbor and 80 miles northwest of San Diego.

The entrance harbor is 500 feet wide. It is guarded and maintained by rock jetties. Channels and anchorage areas are indicated by suitable lights and beacons. An official harbor map will be furnished upon request to the Harbor Master or Chamber of Commerce.

Entering the inlet the course to the Newport Harbor Yacht Club may be found by following the beacons to the Balboa Turning Basin opposite the Balboa Pavilion, thence proceeding in a northwesterly direction around Bay Island, a small island filled with residences which bears dead ahead as one enters the turning basin, then shaping one's course between this island and the beacon which stands northerly of it, and turning sharply to port when between the beacon and the island. The Newport Harbor Yacht Club will be seen dead ahead and less than a quarter of a mile away. The mooring area of this club is S.E. of Lido Isle. Guest moorings and dining and cabin facilities of the club are available to visiting yacht club members for a two week period in a calendar year.

The Rhine canal was dredged and bulkheaded in 1950 to a minimum of 10 feet at mean lower low water to provide better berthing facilities for the commercial fishing vessels in the vicinity of the three canneries. The channel provides a land-locked mooring for the West Newport area and an access to the main harbor turning basin.

A channel has been dredged around Newport Island in the West Newport area, giving a depth of five feet at mean lower low water for the small pleasure boats moored around Newport Island.

Situated in the center of what is recognized as one of the world's greatest fishing grounds, this area offers the deep sea fisherman every facility for the taking of yellowtail, bluefin tuna, barracuda, halibut, and a variety of smaller fish during April to October with the best fishing for that king of gamesters, the marlin swordfish, extending through July, August and September, the latter months being the best.

This land-locked bay is a busy place. A beautiful resort, it is populated on the water by more than 4,000 boats. They run the list from steel schooners to small sail craft like the Snowbirds.

Supply and service are big business in Newport Harbor and there is everything for the boatmen—yards, marinas, stores and fuel stations.

Several dozen firms operate charter fishing fleets out of Newport Harbor for the sportsmen. Probably more famous names keep boats in Newport Har-bor than anywhere else. This is because of its proximity to movieland and its residential colonies.

#### Mission Bay:

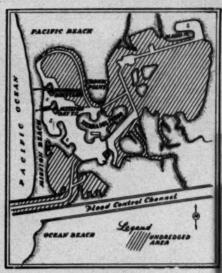
Mission Bay is a shallow tidal basin being transformed into a recreation area of nearly 4,000 acres. It is about 8 miles north of the entrance to San Diego Bay. It will be completed in 1952. A pilot channel into the bay from the ocean is now underway and dredging of a portion of the commercial basin has begun to create a 400-foot frontage for con-struction of piers for commercial enter-prises, fishing boats and boat repair facilities.

One of the best known small boat sailing organizations on the West Coast is located on Mission Bay, the Mission Bay Yacht Club on El Carmel Point. Here, too, is the Windward Boat Club using boats built at the Santa Clara Boathouse to teach children from 12 to 17 years to sail. Dana Landing, in the heart of the bay, is the sportfishing center of the new area.

#### San Diego

is the most southerly seaport on the Pacific Coast of the United States. The harbor widens from a narrow and rather deep channel at the entrance to a broad, shallow basin at the upper end of the bay. The bar has a least depth of 35 feet at low water, and the largest vessels enter and leave with ease.

The entrance to the port is about 10 miles north of the Mexican border.



#### MISSION BAY

The harbor is navigable throughout the entire year, high winds being infre quent, and fogs occurring chiefly in the winter months, generally clearing of within an hour or so after sunrise. The prevailing wind is northwest; storm winds, occurring in the winter months only, are from southeast to southwest

The San Diego Yacht Club is located under the lee of Point Loma at the San Diego Municipal Yacht Harbor. A large area is available for boats to anchor Gasoline is for sale at marine stations in the basin and boat building plants are nearby.

The La Playa Yacht Club is located off the foot of Qualtrough Street, Point Loma, at the head of Quiet Cove, about 600 yards S.S.E. of the San Diego Yachi

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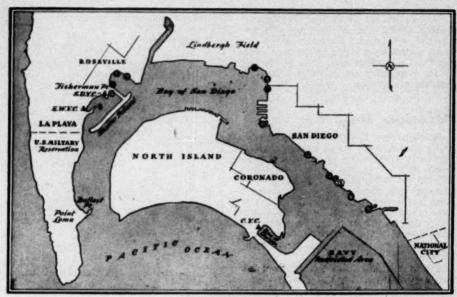
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SAN DIEGO

Club house. The La Playa Y. C. has a wharf and a beach, but no clubhouse. The port captain lives at the land end of the wharf and will open the locked gate for the convenience of the visitors.

The Coronado Yacht Club and the Coronado Rod and Reel Club have a clubhouse, anchorage, and turning basin located at the westerly end of Glorietta Bay near the world famous Hotel del Coronado. There are facilities for restocking, water, ice, food, etc. Rooms, showers, toilet facilities are available at the Yacht Club.

All repairs to gasoline and diesel engines, electrical gear and auxiliaries may be made in port. A number of completely equipped boatyards and repair shops are located at convenient points along the waterfront. The port is noted for the building of larger types of fishing vessels and first-class yachts are turned out. All kinds of repairs to wooden hulls may be made; repairs to steam machinery and to steel hulls may be made also. All shops have marine ways.

The waters about the Coronado Islands are the surface feeding grounds of the migratory game fish such as yellowtail, tuna, marlin and broadtail.

The kelp beds formed by the giant California kelp about two miles offshore are the natural feeding grounds for a large variety of sport fish.

Big game fishermen seeking the battling marlin, broadtail and giant tuna will find the answer to their prayers in the waters off Point Loma. From July 1st to October 1st, thousands of these gamesters are waiting to be lured. At Point Loma the city of San Diego has constructed a municipal sportsfishing pier from which two major associations dispatch day and charter boats.

San Diego Bay's 22 square miles of landlocked water is considered one of the world's finest and safest harbors. Millions of dollars have been spent to improve all its facilities to accommodate the ever-growing fleet of pleasure and commercial boats. The ultimate \$20,000,000 program is continually proceeding.

A comprehensive dredging program has been completed in the yacht and commercial fishing boat areas behind Shelter Island. The existing Byron Street Mole will be joined with Shelter Island, thereby segregating recreational and commercial facilities. Both the yacht and commercial harbors have been dredged to an overall minimum depth of minus 10 feet and a maximum depth of minus 19 feet in the channels and certain mooring areas.

Lighted buoys mark the entrance and the channel center line of the Municipal Yacht Basin. Can and nun buoys define the channel through the mooring area.

A seaplane restricted area, shown on the accompanying map, has been established by the U. S. Navy in the westerly portion of the central part of San Diego Bay, opposite National City.

#### Harbors

MEXICO'S PACIFIC COAST extends approximately 2000 miles from Tiajuana at the north to the Suchiate River at the south, which marks the border of Guatemala.

Beginning nearly at the California border is the vast peninsula of Lower California, almost as large as Italy. It is a mountainous, mineralized area of great natural wealth. The peninsula extends 800 miles southward, with its southernmost tip lying in the Tropic Zone.

Between the peninsula and the mainland lies the Gulf of California. It is the world's largest deep gulf and only the Red Sea is longer. At the southern entrance ocean depths of 11,000 feet are encountered. In 700 miles it shelves to the delta of the Colorado River, almost back to the border of the United States.

The southern half of Pacific Mexico lies well within the Tropic Zone. The weather from December to March is very pleasant and the mornings and evenings are refreshingly cool.

An indispensable cruising aid is the coast pilot published by the U. S. Hydro-

graphic Office for these waters, H. O. No. 84, "Sailing Directions for the West Coast of Mexico and Central America." Charts include Hydrographic Office No. 0621, 1006, 1149, 1193, 1310, 1493, 1636, 1664, 2103, 2193, 0872, 0640, etc.

Mexican customs fees vary from time to time. It is advisable to consult a customs broker and the local office of the Mexican consulate. The size of the vessel, number in the crew, etc., have a bearing on the charges. Necessary, for example, is a certification of a bill of health from the Mexican consul, a crew list, and three inspections at the first Mexican port of entry: health, immigration, and customs.

Pilot services at ports of entry are paid for per foot of draft.

Mexican law (Articulo No. 18) por Yates Extranjeros (foreign yachts) governs procedure of visiting boats.

It is advisable to carry enough food fuel, and water to last from one major Mexican port to another.

Chubasco-time occurs in August, September, and October. It is wise to avoid travel in these months.

#### Ensenada

on Todos Santos Bay, is the first port of entry for a vessel leaving San Diego for a Mexican cruise. There are several agents who will help you in making the necessary clearances and inspections required by Mexican law. A U. S. Consul is stationed here. It is advisable to enter or leave this port, or any other Mexican port, between 9 a.m. and 12 noon, or between 3 p.m. and 6 p.m.

Ensenada has become well known in the past few years as the terminus of the Newport Beach to Ensenada International Yacht Race, considered to be the largest ocean-sailing event of its kind. Since this is the home port of some of the largest fishing vessels in Baja California, you will find repair facilities and an opportunity to stock up on forgotten marine supplies. There is a large hotel. Of landmarks there are plenty: the lookout station on the slope above Ensenada Point; the Ensenada customhouse, a triangular building with a tower at its southwestern corner; a mill chimney 150 feet high; the cemetery at Ensenada; and the water reservoir behind the town.

A small boatyard, with marine rail-

way, located behind a 700 foot breakwater, has been built by Pesquera del Pacific, S de R.L., Mexico's largest fish cannery, located at Sauzel, eight miles north of Ensenada.

Port Magdalena, on the west shore of Man of War Cove, is a Port of Entry. The Port official here is collector of customs. Landing is made directly on the beach. No supplies are available.

San Lucas, a village on the northwest shore of San Lucas Bay on the east coast of Lower California, has a custom-house, a privately owned wharf, limited supplies, irregular steamship contact, and telegraph and telephone communication with La Paz.

#### La Pas

on the east shore of Baja California, is known as one of the world's finest fishing grounds for the game species. The hotels are considered excellent, costs are reasonable and there is a growing sport fishing fleet available for charter. Fuel is available and water and the port facilities are more than adequate. Limited supplies are available. Sailfish, tuna and marlin will give you opportunity to test your fishing ability.

The harbor is ½ to % mile wide and the channel has a length of about 3½ miles and a least charted depth of 3¼ fathoms. La Paz is the seat of government for the southern area of Baja California. There is a municipal pier and a private wharf.

Pilotage is compulsory and health inspection is required. Radio communication facilities are available.

Santa Rosalia, a mining town on the north shore of Port Santa Rosalia, is a Port of Entry. Limited repair facilities are obtainable. Supplies can be obtained. There is a government-owned radio station in town.

#### Guaymas

is fast developing as a port much visited by Americans and is known for its fine sport fishing. It is the center of the shrimp industry of the Gulf of California and can provide supplies and limited marine repair services. There are telephone and telegraph connections with the United States.

There is a U. S. vice-consul at Guaymas and several new hotels. The Standard Oil company maintains a stock of diesel oil. The Southern Pacific railway built the railroad from Nogales to Guaymas, and in the spring of 1950 the highway from Nogales was completed.

Even more attractive than Guaymas itself are some of the nearby harbors and islands. San Carlos Bay, eight miles distant from Guaymas' Bocochibampo Bay, is considered to be one of the most beautiful harbors in the Gulf of California.

Topolobampo is the port of Los Mochis, an inland town with 10,000 population about 12 miles northwestward. There are limited supplies at Los Mochis and telephone and telegraph facilities are available here.

Mazatian is the commercial center of the west coast of Mexico. It is a Port of Entry and there is a U. S. consul here. Supplies are available and repairs can be made. There are good communication facilities here.

Located in Mazatlan is the boatyard of Tomas Rueda Jr., who also maintains a towboat and salvage service, called Salvamentos y Remolques, SA.

Manzanillo is a Port of Entry. Pilots are available, and there are customs and health officials here. Limited supplies are obtainable, and there are good communication facilities.

#### Acapulco

is famous for its international fishing rodeos and tournaments and is the home of the Club de Yates de Acapulco, probably the only yacht club on the west coast of Mexico. The hotels are spectacular and the scenery is equally so. Acapulco is fast becoming a rendezvous for winter-cruising American vessels from San Diego and other coastal cities.

As a harbor it is situated on the northwest side of Santa Lucia Bay and is the center of a fertile agricultural district. The town is built on a hillside. Repairs of a minor nature can be made here and supplies are available. The rainy season lasts from the end of June to the end of October. The high mountains surrounding the crescent harbor provide considerable shelter. The harbor has a width of about 1½ miles at the entrance, increasing to more than 3 miles inside. Corcovado Peak and the Paps of Coyuca are good marks when not obscured, generally clear early in the morning.

There are Mexican customs and health officials here, and pilots are available. Good communication facilities are available.

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AWOL Larry Hakins & Nesmith Okeriund Barbara B. Munroe Bogart Carpy. Walter Carpenter Challenge Ted Trafton Dodger Dr. Ed Dodge Prisky. O. A. Conolly Grace E. Les Bird Jackie J. Ken Sherman Jo-Lynn. Dr. Laurence Nicholson Linda. Fred Cartwright Little Toot Ray Robinson Marvia Orvia Parker Tyee Wallace Erholm	O. A. Conolly	Secretary
Barbara B. Munroe Bogart Carpy. Walter Carpenter Challenge Ted Trafton Dodger Dr. Ed Dodge Frisky. O. A. Conolly Grace E. Les Bird Jackle J. Ken Sherman Jo-Lynn. Dr. Laurence Nicholson Linda. Fred Cartwright Little Toot Ray Robinson Marvia Orvia Parker Tyee Wallace Erholm	Boat	Owner
Barbara B. Munroe Bogart Carpy Waiter Carpenter Challenge Ted Trafton Dodger Dr. Ed Dodge Prisky O. A. Conolly Grace E. Les Bird Juckie J. Ken Sherman Jo-Lynn. Dr. Laurence Nicholson Linda Fred Cartwright Little Toot Ray Robinson Marvia Orvia Parker Tyee Wallace Erholm		
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Prisky O. A. Conolly Grace E. Les Bird Juckie J. Ken Sherman Jo-Lynn. Dr. Laurence Nicholson Linda. Fred Cartwright Little Toot Ray Robinson Marvia Orvia Parker Tyee Wallace Erholm	Challenge	Ted Trafton
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Jackie J. Ken Sherman Jo-Lynn Dr. Laurence Nicholson Linda Fred Cartwright Little Toot Ray Robinson Marvia Orvia Parker Tyee Wallace Erholm		
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ChicH.	J. (Bud) Andrews
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Comfort	J. Koops. Sr.
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Fem	Frank E. Wheaton
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Fredith	Fred Kohler
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H1-J's	Harold Walton Ira W. Flowers
1-81	Ira W. Flowers
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Ketcheny	Melvin C Cham
Laurel	Tules Determen
Lavina II	Dhil Dore
Les Prank	Phil Dorr
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Cliff McMillin
Harold Johanson
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Ed Fritz Harry Lewis
marry Lewis
H. Nunamaker
& C. Nunamaker
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DewkistA	
Discovery	Leon swani
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Ellen	
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	Dr. C. B. Hit	
Shave Tale	Gerald F. Mai	in
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Betsy Too	Raiph smiti
Billie Marie	F., G. Rensci
Bob Lee II	Robert Crawtore
Clar Mar	G. C. MASOI
Conquest	H. B. Garret
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Daltonia	J. E. Adams
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Emmeline	R Bulette
Encore	Milt Bensor
Gay Day	Martin Hansen
Gee Gee	G G Pischner
Gee Jay	C. J. McDouga
Gleneva	James Baldwin
Cracie B	A T Vuh
Gulielma	Padia Diosk
	U P Seever
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Heliabella	H. C. Huston
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Mandalay	P. R. Sewell
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Mary Lou	H. E. Anderson Guy V. William N K. Nelson H. F. Gundlach Elmer Brooks A. O. Nyhus Joe Sullivan S. Kahn Jim Phillips A. L. Shelly P. R. Sewell C. J. Ritchie H. R. Clifford J. W. Walton C. F. Shannon C. E. Hayes Hugh N. Mitchell W. A. Nichols L. A. Tucker H. R. Burks L. A. Schaufler J. Sellers Dr. K. Jackson Wm. A. Silvan I. Munsch W. L. Larsen H. S. Hammond H. J. Thomas R. V. Wilkins A. B. Chitty J. Sands Otto Drager A. Anderson C. Odenwald T. K. Philline
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Merry Me II	C. E. Hayes
Mimi	Hugh N. Mitchell
	W. A. Nichols
Nisimaha Nomad Orodie	L. A. Tucker
Nomad	H. R. Burks
Orodie	.L. A. Schaufler
Patricia	J. Bellers
Patrus II	Dr. K. Jackson
Philela II	Wm. A. Silvan
Puffin	I. Munsch
Philela II Puffin. Pumpkin Seed	W. L Larsen
Ramona	H. S. Hammond
Ross-T	H. J. Thomas
Ramona	R. V. Wilkins
Ruth M	A. B. Chitty
Sandy Joe	J. Bands
Scorpion	Otto Drager
Sea Biscuit	A. Anderson
Sea Fever	Dr. R. A. Benson
Sea Prince	C. Odenwald
Ruth M. Bandy Joe. Scorpion. Sea Biscuit. Sea Fever. I Sea Prince. Sea Bpray. Seal. Sharon Lee. Sharon Marie.	T. K. Phillips
Seal	A. E. Wallis
Sharon Lee	L. E Morris
Sharon-Marie	F. Mangan
Blesta	L. A. Bender
Sinclair	Bremerton Sea
	Scout Ship
Spare Time Starlight	A. M. Mosher
Spare Time	H. D. Haven
Starlight	H. Wilkins
Surf Bird	.G. B. Maulding
Time Off	W. A. Sevedge
Tuna	L. Smith
Tyee Dr.	
Tyng	Robt. R Crees
GG 44	Robt. R Crees T. M. Libby
Valkyrie	Robt. R CreesT. M. LibbyH. Grams, Jr.
Valkyrie	Robt. R CreesT. M. LibbyH. Grams, Jr. Dr. Ray Schutt
Tyee Dr. Tyng Valkyrie Vivienne Whipple	Robt. R Crees T. M. Libby H. Grams, Jr. Dr. Ray Schutt W. Pease
Vivienne	Robt. R. Crees T. M. Libby H. Grams, Jr. Dr. Ray Schutt W. Pease G. Gaumnitz
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	James Munro
	A. E. Smith
Nip	Jean Hart
Pagan	K. Mathews
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Foam Bruce McClosky Folly Strat Biddle, Jr. Footloose Harold D. Mitchell Fun Robert Hubner Furlous Josef Obzina Fury III Dave Nurse Galatea. Jack Beymour Gam Friend Dickinson Gee Whiz II. Eugene R. Jones Gement John Dore and John Hare Powel Gossip. R. Philip Smith, M.D. Gracie S. E. Edison Kennell, Jr. Happy Daze Frank Faget Harpoon E. D. Perry Heather William Buchan	Flying Fo	xJohn	and Jill Fox
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Fun Robert Hubner Furious Josef Obsina Fury III Dave Nurse Galatea Jack Seymour Gam Friend Dickinson Gee Whis II Eugene R. Jones Gemeni John Dore and John Hare Powel Gossip. R. Philip Smith, M.D. Gracie S. E. Edison Kennell, Jr. Happy Daze Frank Faget Harpoon E. D. Perry Heather William Buchan	Footloose	Harold	D Mitchell
Furious Josef Obsina Fury III Dave Nurse Galatea Jack Beymour Gam. Friend Dickinson Gee Whiz II Eugene R. Jones Gement John Dore and John Hare Powel Gossip R. Philip Smith, M.D. Gracie S E. Edison Kennell, Jr. Happy Daze Frank Faget Harpoon E. D. Perry Heather William Buchan	Fun	Re	hert Hubner
Fury III. Dave Nurse Galatea Jack Beymour Gam. Friend Dickinson Gee Whiz II. Eugene R. Jones Gemeni John Dore and John Hare Powel Gossip. R. Philip Smith, M.D. Gracie S. E. Edison Kenneli, Jr. Happy Daze. Frank Faget Harpoon. E. D. Perry Heather. William Buchan	Furious		Josef Obsina
Galatea Jack Seymour Gam Friend Dickinson Gee Whis II. Eugene R. Jones Gemen! John Dore and John Hare Powel Gossip. R. Philip Smith, M.D. Gracie S. E. Edison Kennell, Jr. Happy Daze Frank Faget Harpoon E. D. Perry Heather William Buchan	Fury III		.Dave Nurse
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and John Hare Powel Gossip R. Philip Smith, M.D. Gracie S. E. Edison Kennell, Jr. Happy Daze Frank Faget Harpoon. E. D. Perry Heather. William Buchan	Gee Whis	IIEug	John Dore
Gossip. R. Philip Smith, M.D. Gracie S. E. Edison Kennell, Jr. Happy Dare Frank Faget Harpoon E. D. Perry Heather William Buchan	Gement	and John	Hare Powel
Gracie S. E. Edison Kennell, Jr. Happy Daze	Gossip	R. Philip	Smith. M.D.
Happy Daze	Gracie 8 .	E. Edison	Kennell, Jr.
Harpoon E. D. Perry Heather William Buchan	Happy Da	20	Frank Faget
Heather William Buchan	Harpoon	************	E. D. Perry
	Heather	Will	iam Buchan

Hekate	Hans Bebie &
Charles	Hans Bebie & E. Loughney, Jr.
Holgazan	John S. Abel
Honey	Horace Pearman
HussyDr. Ro	obt. N. Rutherford
Idu Rob and	Lorraine Walker
Thusion	Douglas L. Wilson
Indian Scout	Richard Cahan
Jay Gee II	leo. H. Singer, Jr.
Joy-Too	Clyde A. Peterson
Katrina	Taylor Scott
Kennett IL	Dalph & Bussell
Konla	Harry Garrigues
Kuon	H. W. Withington
Lady Alice	John Soderberg
Lady Luck I	Joseph P. Butler
Lady VanR	obert Denny Watt
Lemolo	Hugh P. Brady
Light Scott	Norman R. Cole
Lien	Anchor Jensen
Little Mike	Lloyd Edward
	John S. Abei Horace Pearman bot. N. Rutherford rdon T. Alexander Lorraine Walker Douglas L. Wilson Richard Cahan leo. H. Singer, Jr. Clyde A. Peterson Taylor Scott Temple Wright Ralph S. Russeli Harry Garrigues H. W. Withington John Soderberg Joseph P. Butler Lobert Denny Watt Hugh P. Brady Don Amick Norman R. Cole Anchor Jensen Lloyd Edward Johnson Garrett Horder
Lively	Garrett Horder
Live Lady	Lloyd Edward Johnson Garrett Horder Elliot V. Mock William H. Frazier Thomas L. Taylor nchor H. H. Jensen
Louis Lauy	Thomas L. Tavior
Love Barge A	nchor H. H. Jensen
Lulu	Hugh Watt
Ma-De	George C. Martin
Magingee	Geo. W. Stoddard
Manana	Ches Thompson
Marine II	Robert L. Perry
Maskee	
May "D"	Edward P. Ashe
MercuryC	lark L. Stuempges
Me Too	Harry B. Fisher
Mickey	Carl L. B. Daniels
Miss Emily	I. T. Williams
Miss Build.	THE RESERVE AS A STREET, SANS
Mist	enneth A. Metcalf
Mohee	enneth A. Metcalf James L. Houston
Mohee	rames L. Houston Jack Gahan
Mohee	enneth A. Metcalf James L. Houston Jack Gahan David S. Robinson
Mohee Myra Myth D Nancy-O Dr.	enneth A. Metcalf James L. Houston Jack Gahan David S. Robinson Douglass W. Orr
Mohee Myra.  Myra.  Myth D Nancy-O Dr. Neoga II. A.	enneth A. Metcalf James L. Houston Jack Gahan avid S. Robinson Douglass W. Orr E. & R. F. Peier Larry Dornberg
Mohee Mohee Myra Myrh Dr. Nancy-O Dr. Neoga II A. New Moon Nika F	enneth A. Metcalf James L. Houston Jack Gahan Pavid S. Robinson Douglass W. Orr E. & R. F. Peier Larry Dornberg
Mohee Mohee Myra Myra Myth D Nancy-O Dr. Neoga II A New Moon Niks F Nimbus	nchor H. H. Jensen Hugh Watt George C. Martin Geo. W. Stoddard John W. Ellis Chas. Thompson Robert L. Perry
Mist Ki Mohee Myra Myra Myrh D Nancy-O Dr. Neoga II A. New Moon Nika F Nimbus Nixie	enneth A. Metcalf James L. Houston — Jack Gahan David S. Robinson Douglass W. Orr E. & R. F. Peier — Larry Dornberg Frank Rambaldini — Irving Anderson — Marshall Perrow
Mist Ki Mohee Myra Myra Myra Myrh D Nancy-O Dr. Neoga II A. New Moon Nika F Nimbus Nixie Nohea Char	enneth A. Metcalf James L. Houston Jack Gahan avid S. Robinson Douglass W. Orr E. & R. F. Peter Larry Dornberg Frank Rambaldini Irving Anderson Marshall Perrow les E. Chretenson
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Nixie Nixie Nohea Char Olympic Ono Dr Opus I Oregon Star Osio Panacea II Pepper Pete-Too Phynnodderree Pinafore Polka E Prelude Raven Rebel Reverie Rippies Rippies Riptide Risken Rival Saga Saga Sag When Scarlet Queen I	Marshall Perrow les E. Chretenson R. D. Ball, Jr. Herbert W. Day Samuel L. Lake John Cram Hans-Otto Glese George Reeves Van B. Butler Virginia Platt Max Campbell W. K. Holmes dward Woodcock Paul H. Fordyce Glen R. Botsford Roy E. Anderson Dr. Govnor Teats Vorm Greenbaum Gale Griswold J. Glen Liston Ernest A. Banner Hulbert Murray Wm. R. Wood Don D. Fairbanks John Woodward
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Nixie Nohea Char Olympic Ono Dr Opus I Oregon Star Osio Panacea II Pepper Pete-Too Phynnodderree Pinafore Polka E Prelude Raven Rebel Reverie Rippies Rippies Ripkie Risken Rival Baga Bay When Scarlet Queen I Schuss Bea Witch Bhady Lady	Marshall Perrow les E. Chretenson R. D. Ball, Jr. Herbert W. Day Samuel L. Lake John Cram Hans-Otto Glese George Reeves Van B. Butler Virginia Platt Max Campbell W. K. Holmes dward Woodcock Paul H. Fordyce Glen R. Botsford Roy E. Anderson Dr. Govnor Teats form Greenbaum Gale Griswold J. Glen Liston Ernest A. Banner Hulbert Murray Wm. R. Wood Don D. Fairbanks John Woodward W. J. Griggs Willard Skeel
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Nixie Nohea Char Olympic Ono Dr Opus I Oregon Star Osio Panacea II Pepper Pete-Too Phynnodderree Pinafore Polka E Prelude Raven Rebel Reverie Rippies Rippies Ripkie Risken Rival Baga Bay When Scarlet Queen I Schuss Bea Witch Bhady Lady	Marshall Perrow les E. Chretenson R. D. Ball, Jr. Herbert W. Day Samuel L. Lake John Cram Hans-Otto Glese George Reeves Van B. Butler Virginia Platt Max Campbell W. K. Holmes dward Woodcock Paul H. Fordyce Glen R. Botsford Roy E. Anderson Dr. Govnor Teats form Greenbaum Gale Griswold J. Glen Liston Ernest A. Banner Hulbert Murray Wm. R. Wood Don D. Fairbanks John Woodward W. J. Griggs Willard Skeel
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Skylark R. A. Davis Southern Cross George Millard Spanker I Katie Knapp Spirit Harold A. Jones Starbaby Chas Moore Stardust Roy A. Smith Starlet A. W. & John R. Paterson Sula Robert Lewis Sun Dog Bernice Howell
Sunny Francis A. Le Sourd
Susan Philip Spaulding Svea Gosta Eriksen Symbol Ernest C Divine, Jr. Taku Herb Hanlon Takulli Henry W. Kuhiman Taruga Robert E. Priebe Tempest Jon Bedinger
Tempest Jon Bedinger T-Joy Dr. F. B. Joy Thesis Dr. Ed Chambers Tisasin. Robert L. Sommer Titanic. Jeanne Meredith Tola Charles R. Olmstead
Tomcat Kit Tucker Tops Robert 8 Moore, Jr. Torrid Bill Buchan, Jr. Tsoid Hugh Miracle
Trees Dishard O Cilhant
Vector George Schalrer Vinta Conner E. Gray, Jr. Vulpine Russell Baker Weegee E. Howard Gee Westwind George W. Miller What's That Milton A. Flaten Wiki Wiki. Robert S. Curry Wild Flag Stephen F. Chadwick, Jr.
Williwaw Virginia Higman Wind's Call George A. Spaulding Winsome Hersh Druxman Winsome Jack Tussler Wynkin Fred Sundt Zeta E. E. (Al) Miller
DAY ISLAND YACHT CLUB East Side of Day Island Tacoma, Washington
Horton Wilcox
Boat Owner Billa. Wm. Slevert Gray Goose Victor Bringham Ida-Mac Horace Mills Jackpot. John Hanson Jolly Roger Sea Scouts No. 48 Maudor. O. V. Snyder Mipat II Horton Wilcox
Maudor. O. V. Snyder Mipat II. Horton Wilcox Penny. L. B. McGaw Scotti. Norman Wilson Viola M. Robert Bringham Wee Willie. Harry Almquist 30G1821. Robert Williams 30D705. Floyd Willits
EVERETT YACHT CLUB Everett, Washington
William T. GriffiaCommodore Walter J. PrechtSecretary Box 567

Everett, Wash.

Adventure.

H. J. Kellogg
Roy Davis
L. E. Clary

Aggie M	Noel Caldwell
Alaska LadyA	Noel Caldwell E. and Glenn G.
	Healne
Alexia	A. G. Alexander C. S. Thomas Charles D. Casely Herb R. Wilson
Allogro (	Charles D Casely
Allia	Harh P. Wilson
Argosy	Air Christensen
Awpshaw	Fred C. Shaw
Babe	Daly Marc
Babs	J. C. Wilson
Barbara Sue I	IH. L. Keller
Bark	Pred C. Shaw Daly Marc J. C. Wilson I. H. L. Keller Jos. G. Kennedy John H. Beck Oliver S. Vognild Don B. Walser I. W. Hendrickson Claire R. Dobler
Bec.Po	Oliver & Vornild
Reetle	Don B. Walser
Beverly Ann.E	W. Hendrickson
Billchuck	Claire R. Dobier E. Vanderweken
Billy Jim	E. Vanderweken
Billy K	William H. Kasch
Bo-Bella	L. Stubrud and
Rob O Lite	Robert A Princia
Bon Jour	Armon F. Frahm
Bounty	Wm. F. Knehr
Brooks	R. C. Hazeltine
	and Stan Petersen
Bruce C	Claire R. Dobler E. Vanderweken William H. Kaseh L. Stubrud and ert H. Thornberry Robert A. Pringle Armon F. Frahm Wm. F. Knehr Wm. F. Knehr Lifford S. Groves Arthur A. Burgess Arthur G. Hughes Alexander Gyrog C. H. Briggs C. L. Lauerman larry and Richard
Care Free	Arthur G. Hughes
Carol Jean	Alexander Gyrog
Char-Jere	C. H. Briggs
Clair-MetDr.	C. L. Lauerman
Clyde	larry and Richard
	Morseth
Coaster	Kenneth Marvin
Corei 5th	Charles A Gates
Corky	Geo. W. Wardell
Corojo	Larry Diffley
Conji II Ja	mes H. Hambidge
Corky	P. W. Lehman
Cyenet	
C) Proposition	L. H. Croxiora
Denny D	Dale W. Allison
Denny D	Dale W. Allison Henry W. Meyers
Denny D Dianne Dippy Duck	Dale W. Allison Henry W. Meyers Fred V. Ness
Denny D	Dale W. Allison Henry W. Meyers Fred V. Ness Dr. E. B. Chase
Denny D	Dale W. Allison Henry W. Meyers Fred V. Ness Dr. E. B. Chase Don McPhali
Denny D. Dianne. Dippy Duck Docsout. Don I.	C. L. Lauerman Iarry and Richard Morseth Kenneth Marvin Robert D. Wilson Charles A. Gates Geo. W. Wardell Larry Diffley mes H. Hambidge P. W. Lehman L. H. Croxford Dale W. Allison Henry W. Meyers Fred V. Ness Dr. E. B. Chase Don McPhail and Cliff Cruzen D. P. Shew
Denny D. Dianne. Dippy Duck. Docsout Don I.  Dor Eve. Dorothy M	Dale W. Alison Henry W. Meyers Fred V. Ness Dr. E. B. Chase Don McPhail and Cliff Cruzen D. P. Shew R. J. McBride
Denny D. Dianne Dippy Duck Docsout Don I  Dor Eve Dorothy M. Dougy Anne	Dale W. Allison Henry W. Meyers Fred V. Ness Dr. E. B. Chase Don McPhali and Cliff Cruzen D. P. Shew R. J. McBride Tom Whyte
Denny D. Dianne. Dippy Duck. Docsout. Don I.  Dor Eve. Dorothy M. Dougy Anne. Drake.	Dale W. Allison Henry W. Meyers Fred V. Ness Dr. E. B. Chase Don McPhail and Gliff Crusen D. P. Shew R. J. McBride Tom Whyte
Dor Eve	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer
Dor Eve. Dorothy M Dougy Anne Drake Eastern Star	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen
Dor Eve. Dorothy M Dougy Anne Drake Eastern Star	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve. Dorothy M Dougy Anne. Drake. Eastern Star Egypt. Eight Ball Elaine.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond
Dor Eve Dorothy M. Dougy Anne Drake Eastern Star Egypt Eight Bail. Elaine. Elaine. Elsie. Dr. A Emma B Erlee Fae-Don Feather III Fibber. Four Winds. Frog Greata Dr. H Gypsy. Haida Hamburger Kie Hossoo. Howdot. Ingrid. J. W. 6 Ingrid. J. W. 6 Irene.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond Ifred Von Stubbe A. E. Bolin E. E. Hopper Don M. Reid O. W. Thomie Leslie A. Geisel Dr. H. B. Walter Henry M. Brown erbert W. Johnson Dr. John G. Cecil A. B. Moody I. Ron Johnston J. Sievers Howard C. Round and W. W. Juntila Leslie A. Gritten
Dor Eve Dorothy M. Dougy Anne Drake Eastern Star Egypt Eight Bail. Elaine. Elaine. Elsie. Dr. A Emma B Erlee Fae-Don Feather III Fibber. Four Winds. Frog Greata Dr. H Gypsy. Haida Hamburger Kie Hossoo. Howdot. Ingrid. J. W. 6 Ingrid. J. W. 6 Irene.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond Ifred Von Stubbe A. E. Bolin E. E. Hopper Don M. Reid O. W. Thomie Leslie A. Geisel Dr. H. B. Walter Henry M. Brown erbert W. Johnson Dr. John G. Cecil A. B. Moody I. Ron Johnston J. Sievers Howard C. Round and W. W. Juntila Leslie A. Gritten
Dor Eve Dorothy M. Dougy Anne Drake Eastern Star Egypt Eight Bail. Elaine. Elaine. Elsie. Dr. A Emma B Erlee Fae-Don Feather III Fibber. Four Winds. Frog Greata Dr. H Gypsy. Haida Hamburger Kie Hossoo. Howdot. Ingrid. J. W. 6 Ingrid. J. W. 6 Irene.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer IIDr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond Ifred Von Stubbe A. E. Bolin E. E. Hopper Don M. Reid O. W. Thomie Leslie A. Geisel Dr. H. B. Walter Henry M. Brown erbert W. Johnson Dr. John G. Cecil A. B. Moody I. Ron Johnston J. Sievers Howard C. Round and W. W. Juntila Leslie A. Gritten
Dor Eve Dorothy M. Dougy Anne Drake Eastern Star Egypt Eight Bail Elaine. Elaine. Elsie. Dr. A Emma B Erlee Fae-Don Feather III Fibber. Foty Fo II. Four Winds. Frog. Greata Dr. H Gypsy. Haida. Hamburger Kie Hossoo. Howdot Ingrid. J. W. Irene H. Itchy-Scratchy. Jas-Me-J. V. Jas-Me-J. V.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer II Dr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond Ifred Von Stubbe A. E. Bolin E. E. Hopper Don M. Reid O. W. Thomie Leslie A. Geisel Dr. H. B. Walter Henry M. Brown erbert W. Johnson Dr. John G. Cecil A. B. Moody I. Ron Johnston J. Sievers Howard C. Round and W. W. Juntila Leslie A. Gritten G. A. Hutchings Walter S. Dailey Wilbur E. Johnson
Dor Eve Dorothy M. Dougy Anne Drake Eastern Star Egypt Eight Bail Elaine. Elaine. Elsie. Dr. A Emma B Erlee Fae-Don Feather III Fibber. Foty Fo II. Four Winds. Frog. Greata Dr. H Gypsy. Haida. Hamburger Kie Hossoo. Howdot Ingrid. J. W. Irene H. Itchy-Scratchy. Jas-Me-J. V. Jas-Me-J. V.	D. P. Shew R. J. McBride Tom Whyte Edward L. Sierer II Dr. Arnt Pet- tersen S. C. Richards Tom Stiger Olaf Bond Ifred Von Stubbe A. E. Bolin E. E. Hopper Don M. Reid O. W. Thomie Leslie A. Geisel Dr. H. B. Walter Henry M. Brown erbert W. Johnson Dr. John G. Cecil A. B. Moody I. Ron Johnston J. Sievers Howard C. Round and W. W. Juntila Leslie A. Gritten G. A. Hutchings Walter S. Dailey Wilbur E. Johnson
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Royce Smithse
II. Robert E. Nelse
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ane. G. Kinn O'Nellie Our Toy..... Pastime II.... Patricia V..... Patty Jane. G. Kinni Peewee. G. M. Lindble Pegosus Mrs. Geo. A. Bergstro Poom Poom. A. A. Weig Prelude. Jerry H. Shelli Quest IV. Bert Bede Rae. Edwin C. Dag
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#### P.O. Bex 291 Coulee Dam, Wash.

Ray L. Owens	Commodore
H. E. Parment	erSecretary
Boat	Owner
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Cornal	A. J. Dube
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Whig-Awa
Zanol Leonard Zanol

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	·, · · · · · · · · · · · · · · · · · ·
Cecil Hallin	Commodore
David Hallin	SecyTrens.
Boat	Owner
Barbara IV	
Blue Jack	
Bobkat IIIR	
Bonney LR	P. Wollenberg
ChieftonC.	
Edith	
El-Jay	Dr. C. J. Bells
Gismo	
Helen A	Dr. C V. Allen
Elich Gans	A C Watkins

Holiday E. W. Wagner
Judy-B-IIDr. G. H. Mathis
Julie-Anne Ben Lillebo
KathyHugo Aho
LeRoy Roy Dunia
Little Toot IIBen Herring
Margaretha George Hiti
MargueriteChas. Meyer
Marilyn II
Mary-AnnDr. Wm. A. Johnson
MaryjoDick Schneider
Mattie E Lee Howard Lee
Nicky-Ann Ken Christianson
Pee Wee VBill Burkland
Sally Fred Cook
SanBar II Dr. John F. Barton
Sea Ann Mel Rooney
Skippy III
Theljon J. R. Ericksen
Malle W B M Tollefoon
Tolly VR. M. Tollefson

#### MEYDENBAUER BAY YACHT CLUB

Burt Marshall......Commodore

#### Route 2 Bellevue, Washington

Rolf Glerum	Secretary
Boat	Owner
Comrade	Story Birdseye
Dee Dee	Burt Marshall
El Phileen II	H. D. Fowler
FollyF	. M. Treffinger
Happy Chance	R. H. Evans
HarleeDi	
IlliniI	Dr. J. E. Taylor
Lady C8	tarr H. Calvert
Laverock III	Ed Cunningham
Little Helen C	Wm. Culliton
LoreleiDe	on A. Proudfoot
Panacea II.Dr. (	
Paso Tiempo	
Rosie Beth	
San VicenteGeo	
StarlightLa	wrence Calvert
Solano	D. E. Fowler
Tenderfoot	R. F. Campbell
VitenseCl	
Miller of Blanch	Www P Lauria

#### OLYMPIA YACHT CLUB P. O. Box 765 Olympia, Wash.

Mooring: Southerly tip of Budd Inlet

Frank E. Culp......Commodure Chester R. Dawson.....Secretary

Boat	Owner
Alanna	A. G. Homann
Anril	Lynn Ramsey
Arabelle	Leo Arany
Aurella	Wm. C. Guffey
	E. O. Sjoboen
Beerboating	Jack Martin
Bobet	E. D. Brabrook
Carlu	C. E. Ostrand
Carol II	H. F. Heath
Cede	H. N. Anderson
	E. Christopher
Cheryl A	Charles Ahern
ChieftainE. 1	L Armstrong, Jr.
Chipper Boy	Gale Wagner
Chummy	Ronald Wilder
Commando	Claude Whitley
Culprit	Frank Culp
Dal-Bet	Dale Isom
Dauntless	H. Wanderlich

Dawn	Charles Harnel
Diana Van.	Dr F P Van Gilder
Dottie	Howard D. Coffman
Dreamer	W. L. Gooding Raymond R. Meyer Lloyd J. Vosper Kenneth Wagner S. A. Perkins
Dunlin	Paymond P Mover
Dutch Maid	Lloyd I Vosper
Duten Maio	Lioyd J. Vosper
East Wind.	Kenneth Wagner
El Primero.	S .A. Perkins
Emmy Lou.	T. Reed Incham
Erlyndee	A. W. Lewis
Foursome	A. W. Lewis
FranmarC	Col. Frank H. Wright
Freddie	Martin Paulson
Galivanter	Lester P. Benton
Gary Barb	
Cary Date.	Whitmarsh
	G. F. Richardson
Grayling	G. F. Richardson
Gypsy Herbie-Dick	Roy Kimbei
Herbie-Dick	Herbert G Angle
High Seas	E. I. Marett
Hope	Frank K. Thorp
Horizon	Chester R. Dawson
Hyak	Walter H. Draham
Ianthe	Frank H. Evernden
Irene	A. Scheuweiler
Joan	P. H. Macklin
Johana	W. M. Hamley
	A R Hartley
Jonkin	Jim Arnold
Joyce II	G. F. Richardson Roy Kimbel Herbert G Angle E. I. Marett Frank K. Thorp Chester R. Dawson Waiter H. Draham Frank H. Evernden A. Scheuweiler P. H. Macklin W. M. Hamley A. R. Hartley Jim Arnold Henry A. Skog John H. Hansen
June	Henry A. Skog John H. Hansen F. Walter Graham W. H. Dole Lyle L. Iversen Elmer Tillman M. C. Willie er J. T. Hoffer Fritz Schmidt Dr. A. E. Anderson W. B. McDonald A. J. Bloom
Just 80	John H. Hansen
Kathleen	F. Walter Graham
Katie Ford.	W. H. Dole
Kohala II	Lyle L. Iversen
Labanna	Elmer Tillman
Libsea	M. C. Willie
Little Skipp	er J. T. Hoffer
Loafer	Fritz Schmidt
Lois May	Dr. A. E. Anderson
Manhah	W B McDonald
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Margaret	J. A. Tannahill, Jr.
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Marianne	Maurice Milgard
Marjorie	Tom G. Sowell
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Mary X	Dr. I. C. Anderson
Midargo	A L. Osberg
Mione	A. M. Polson
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Mount Let	W W Matter
Myown	W W Houston
Nancy	Michael E Monnada
NeomarDr.	Michael E. Kenneuy
No Name	G. A. Whitehead
Nublan	
	G. A. Whitehead
Nymph	C. I. Chilman
Nymph Oh Bud	
Nymph	
Nymph Oh Bud Omea Oralada	
Nymph Oh Bud Omea Oralada	
Nymph Oh Bud Omea Oralada Owl	
Nymph Oh Bud Omea Oralada Owl Pamanus	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus Pamanus Pamanus Peggy Penguin Playback	Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel
Nymph Oh Bud Omea Oralada Owl Pamanus Pamanus Pamanus Peggy Penguin Playback	G. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Olsen W. W. Kemp
Nymph. Oh Bud. Omea. Oralada. Owl. Pamanus II Patay-Ann Peggy. Penguin. Playback Princess. Punk-In-See	G. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Olsen W. W. Kemp
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy Penguin Playback Princess. Punk-In-See Riptide	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Olsen W. W. Kemp d. Charles E. Ayer J. L. Anderson
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus Pamanus II Patay-Ann. Peggy Penguin Playback Princess. Punk-In-Bee Riptide Roberta Sue	G. I. Chilman Jim E Arnold Dr. H. L. Pettt Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy. Penguin Playback Princess. Punk-In-See Riptide. Roberta Sue	G. I. Chilman Jim E Arnold Dr. H. L. Pettt Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy. Penguin Playback Princess. Punk-In-See Riptide. Roberta Sue	G. I. Chilman Jim E Arnold Dr. H. L. Pettt Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad
Nymph. Oh Bud. Omea. Oralada Owl. Pamanus II Patay-Ann Peggy Penguin Playback Princess Punk-In-See Riptide Roberta Sue Robet. Sabini Saluda	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omea. Oralada Owl. Pamanus II Patay-Ann Peggy Penguin Playback Princess Punk-In-See Riptide Roberta Sue Robet. Sabini Saluda	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omea. Oralada Owl. Pamanus II Patay-Ann Peggy Penguin Playback Princess Punk-In-See Riptide Roberta Sue Robet. Sabini Saluda	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omea. Oralada Owl. Pamanus II Patay-Ann Peggy Penguin Playback Princess Punk-In-See Riptide Roberta Sue Robet. Sabini Saluda	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy Penguin. Playback Princess. Punk-In-See Riptide Roberta Bue Robet. Sabini. Saluda Sandpiper. Sandra II. Sandra K.	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy Penguin. Playback Princess. Punk-In-See Riptide Roberta Bue Robet. Sabini. Saluda Sandpiper. Sandra II. Sandra K.	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omes. Oralada Owl. Pamanus II Patsy-Ann Peggy Penguin. Playback Princess. Punk-In-See Riptide Roberta Bue Robet. Sabini. Saluda Sandpiper. Sandra II. Sandra K.	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer
Nymph. Oh Bud. Omea. Oralada Owl. Pamanus II Patay-Ann Peggy Penguin. Playback Princess. Punk-In-Bee Roberta Bue Robet. Sabini. Saluda. Sandpiper. Sandra II Sandra K. Saranar. Sea Ease	C. I. Chilman Jim E Arnold Dr. H. L. Petit Al McCoy Geo. Eklund William Vogel Ernest Mallery Gotfred Peterson R. M. Allen J. E. Jenkins Tom Oisen W. W. Kemp d. Charles E. Ayer J. L. Anderson Martin Jastad Ernest Brabrook R. D. Hofer F. E. Wilder L. A. Muessel Art A. A. Carison Earle Kiney Russell O. Stone E. L. Ticknor Cosie Tranum
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Prarmigan Purfin II Pumiki Pumiki Pursuit. Jo Quilceda Racie. Retriever. Dr. Reveillee. IRoanoke. IRose Marie. Roustaobut. E Ruswin. Dr. Salt Shaker. Sand Man. Sarna. Sarna Lou. Sea Dog II. Sea Idle. L Seafarer. Sea Pal. Sea Scamp. Sea Scamp. Sea Spray II. Sea Sarpa. Sea Spray II. Sea Tang. Sea Warer. Rob	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers William Godefroy Richard O. Masor Ernest W. Osgood  Archle Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg  John R. Martin  Jack T. Ranker  Elwood Stone Joseph H. Harris  Henry L. Jones Dr. H. A. Rodolf  zester O. Trabert  Homer Carroll  Harry L. Clark  Herb L. Klock George Wakefield Robert W. Littell  Dr. F. H. Pratt  sert E. Landweger
Prarmigan Purfin II Purnuik Purnuik Purnuit Jo Quilceda Racle Racle Retriever Dr. Reveillee Ross Marie Roustaobut E Ruswin Dr. Salt Shaker Sand Man Barna Sarna Lou Sea Carol Sea Dog Sea Dog Sea Dog Sea Dil Sea Idle Sea Idle Sea Sand Sea Sea Pal Sea	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers  William Godefroy Richard O. Mason  Ernest W. Osgood  Archie Johnson  dward T. Rowse Frank C. Russell  N. F. Oldenburg  John R. Martin  Jack T. Ranken  Elwood Stone  Joseph H. Harris  Henry L. Jones  Dr. H. A. Rodoli  ester O. Trabert  Homer Carroll  Harry L. Clark  Herb L. Klock  George Wakefield  Robert W. Littell  "Dr. F. H. Pratt  Let Landweer  Seth Green  Seth Green
Prarmigan J Purfin II Purnuik J Purnuik J Quilceda Racle Racle Retriever Dr. Reveillee L Rose Marie Roustaobut E Ruswin Dr. Salt Shaker Sand Man Sarna Lou Bea Carol Sea Dog II Sea Idle L Sea Sea Dog II Sea Idle L Sea Scamp Sea Shell Sea Scamp Sea Shell Sea Spray II Sea Tang Sea Wolf. Sea Seaweer Rob Sea Wolf. Sea Seawer Rob Sea Wolf. Sea Seawer Rob Sea Wolf. Sea Seawer Seaworthy.	G. L. McLare Dr. W. E. Tuppe Chas W. Smit F. M. Moh b L. Sommerfeld E. "Spud" Haass mes F McDonal Hans Mulle Archie Iverso Eugene H. Bru rman W. Bushnel E. R. Conno Cliff Cruickshani George W. Wile, Fred E. Weldo Joe Baranofsk Preston Smit Stuart T. Vigger Richard M. Hilton H. A. Kurtzman Don Tittemor Norman Collin W. R. Davidsoo Arthur E. Wah Austen D. Hemion D. E. Hewit Murray Aitkei H. M. F. Buckman O. N. Mayberry George Ross Ray Stroble Jack Millen Had Wolfe Pr. R. T. Pretlov rd R. McCullough B. T. McMinn H. L. Kaysei William W. Foo Dr. Otto Strizel Ames A. Callended James A. Callended James G. Frazei e R. Timmerman C. D. Hanbloom Dale McKear Roy A. Vaught on Jack H. Woods hin G. Holmstrom Ted Harris Henry L. Jones Dr. H. A. Rodoli Street W. Osgood Archie Johnsor dward T. Rowse Frank C. Russell N. F. Oldenburg John R. Martin Jack T. Ranker Elwood Stone Trabert Homer Carroll Harry L. Clark Herry L. Jones Dr. H. A. Rodoli ester O. Trabert Homer Carroll Harry L. Clark Herry L. Jones Dr. H. A. Rodoli ester O. Trabert Homer Carroll Harry L. Clark Herry L. Lork Herry L. Lork Herry L. Kleck Greb W. Kichel Gobert W. Littell Dr. F. H. Pratt L. Homer Carroll Harry L. Clark Herry L. Lork Herry L. Kleck Greb W. Kichel Gobert W. Littell Dr. F. H. Pratt L. Homer Carroll Harry L. Clark Herry L. Jones Dr. H. A. Rodoli ester O. Trabert Homer Carroll Harry L. Clark Hore W. Kichel Greber W. Kichel Greber W. Kichel Robert W. Littell Dr. F. H. Pratt L. H. Norton M. H. Norton W. H. Norton
Prarmigan J Purfin II Pumiki Pumiki Pursuit Jc Quilceda Racie Retriever Dr. Reveillee Rouse Marie Rose Dog Sand Man Sarna Lou Sea Dog II Sea Idle L Seafarer Sea Pal Sea Scamp Sea Seamp Sea Seamp Sea Seamp Sea Spray II Sea Tang Sea Wolf Sea Seyla	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers  William Godefrog Richard O. Masor Ernest W. Osgood  Archie Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg  John R. Martin  Jack T. Ranken  Elwood Stone Joseph H. Harris  Henry L. Jones Dr. H. A. Rodolf  ester O. Trabert  Homer Carroll  Harry L. Clark  Herb L. Klock  George Wakefield  Robert W. Littell  Dr. F. H. Pratteert  Et Landweer  Seth Green  W. H. Norton  Rhodes Spencer
Prarmigan Puffin II Pumiki Pursuit. Jo Quisuit. Jo Quisuit. Jo Quisuit. Jo Reveillee. Retriever. Dr. Reveillee. Roanoke. Rose Marie. Roustaobut. E Ruswin. Dr. Salt Shaker. Sand Man. Sarna. Sarna Lou Sea Carol. Sea Dog II Sea Dog II Sea Idle. L Seafarer. Sea Fal. Sea Seamp. Sea Seamp. Sea Seamp. Sea Shell. Sea Spray II Sea Tang. Sea Wolf. Seaworthy. Selvia. Shal-Juan.	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers William Godefroy Richard O. Masor Ernest W. Osgood Archle Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg John R. Martin Jack T. Ranker  Elwood Stone Joseph H. Harris Joseph H. Harris Joseph H. A. Rodolf ester O. Trabert Homer Carroll Harry L. Clark Herb L. Klock George Wakefield Robert W. Littell Dr. F. H. Pratt ert E. Landweer  Seth Green  W. H. Norton Rhodes Beencer  M. E. Ahlbers
Prarmigan J Purfin II Purniki Purnuit. Jc Quilceda Racle. Racle. Retriever Dr. Reveillee I. Rose Marie Roustaobut E Ruswin. Dr. Salt Shaker. Sand Man. Sarna Lou Bea Carol Bea Dog. Sea Dog II Sea Idle. I. Seafarer. Sea Pal Sea Scamp. Sea Scamp. Sea Shell Sea Spray II Sea Tang. Sea Wolf. Sea Wolf. Seaweer. Rob Sea Wolf. Seaworthy. Selvia. Shal-Juan Shamrock.	ohn L. Molianer Robert H. Hayes Jack H. Woods hn G. Holmstrom Ted Harris Ray Meyers William Godefroy Richard O. Mason Ernest W. Osgood Archie Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg John R. Martin Jack T. Ranken Elwood Stone Joseph H. Martin Jack T. Ranken Oseph H. Harris Henry L. Jones Dr. H. A. Rodoli ester O. Trabert Homer Carrool Harry L. Clark Herb L. Klock George Wakefield Robert W. Littell Dr. F. H. Pratt ert E. Landweer W. H. Norton Rhodes Spencer A. E. Ahlberg Wm. A. Bronson
Prarmigan Purfin II Pumiki Purnuit. Jo Quilceda Racie. Racie. Retriever. Dr. Reveillee. Roanoke Roanoke Rose Marie. Roustaobut. E Ruswin. Dr. Salt Shaker. Sand Man Sarna. Sarna Lou. Sea Dog. Sea Dog II. Sea Idle. I. Seafarer. Sea Pal. Sea Scamp. Sea Scamp. Sea Sea Sea Dog. Sea Sea Wolf. Seawerr. Rob Sea Wolf. Seaworthy. Selvia. Shal-Juan. Shal-Juan. Shal-Juan. Shanpri-La. Shapri-La. Shapri-La. Shapri-La. Shapri-La. Shapri-La. Shapri-La. Shapri-La. Shapri-La.	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers  William Godefroy Richard O. Mason  Ernest W. Osgood  Archie Johnson  dward T. Rowse Frank C. Russell N. F. Oldenburg  John R. Martin  Jack T. Ranken  Elwood Stone  Joseph H. Harris  Henry L. Jones  Dr. H. A. Rodolf  ester O. Trabert  Herb L. Klock  George Wakefield  Robert W. Littell  Dr. F. H. Pratt  ert E. Landweer  Seth Green  W. H. Norton  Rhodes Spencer  A. E. Ahlberg  Wm. A. Bronson  Dr. Ed C. Guyer  Iton G. Wilson  Long Wilson
Prarmigan Puffin II Pumiki Pumiki Pursuit. Jo Quliceda Racile Racile Retriever. Dr. Reveillee Roanoke. Il Roanoke. Il Rose Marie Roustaobut. E Ruswin. Dr. Salt Shaker Sand Man. Sarna. Sarna Lou. Sea Dog II Sea Dog II Sea Idle. L Seafarer Sea Ail Sea Scamp Sea Scamp Sea Spay II Sea Shell Sea Spray II Sea Tang Seawer. Rob Sea Wolf. Seaworthy. Selvia. Shal-Juan. Shalmock Shangri-La. Sharie II. Mi	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers William Godefroy Richard O. Masor Ernest W. Osgood  Archle Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg  John R. Martin  Jack T. Ranker  Elwood Stone Joseph H. Harris Henry L. Jones Dr. H. A. Rodolf  zester O. Trabert  Homer Carroll  Harry L. Clark  Herb L. Klock George Wakefield Robert W. Littell  Dr. F. H. Pratt ert E. Landweer  Eth Green  W. H. Norton  Rhodes Bencer  A. E. Ahlberg Wm. A. Bronson  Dr. Ed C. Guyer  Iton G. Wilson &  Dr. Jack Baker  Lorek Baker  Jor. Bed C. Guyer  Iton G. Wilson &  Dr. Jack Baker
Prarmigan Purfin II Purnuik Purnuik Purnuit Jo Quilceda Racle Racle Retriever Dr. Reveillee Roustaobut E Ruswin Dr. Salt Shaker Sand Man Sarna Lou Bea Carol Bea Dog Sea Dog II Sea Idle Sea Barie Sea Pal Bea Scamp Bea Seamp Sea Wolf Sea Wolf Sea Wolf Seaworthy Selvia Shal-Juan Shamrock Shapri-La Sharie II Mi Shellback	ohn L. Molianer Robert H. Hayes Jack H. Woods hin G. Holmstrom Ted Harris Ray Meyers William Godefroy Richard O. Mason Ernest W. Osgood Archie Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg John R. Martin Jack T. Ranker Elwood Stone Joseph H. Harris Henry L. Jones Dr. H. A. Rodoil ester O. Trabert Homer Carroll Harry L. Clark Herb L. Klock George Wakefield Robert W. Littell Dr. F. H. Pratt ert E. Landweer Seth Green M. H. Norton Rhodes Bpencer A. E. Ahlberg Wm. A. Bronson Dr. Ed C. Guyer Iton G. Wilson & Dr. Jack Baker Floyd D. Somers
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Prarmigan Purfin II Pumiki Pumiki Pursuit. Jo Quilceda Racie. Racie. Retriever. Dr. Reveillee. Rose Marie. Sand Man Sarna. Sarna Lou. Sea Dog II Sea Tang Sea Dog II Sea Garer Sea Pal Sea Scamp Sea Scamp Sea Sea Pal Sea Scamp Sea Shell Sea Syray II Sea Tang Sea Wolf. Seaworthy. Seaworthy. Selvia. Shal-Juan Shalrock. Shangri-La. Sharie II. Mi Sheliback Sheri-B. Shirley Marie II	ohn L. Molianer Robert H. Hayes  Jack H. Woods hn G. Holmstrom  Ted Harris  Ray Meyers  William Godefroy Richard O. Masor Ernest W. Osgood  Archle Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg  John R. Martin  Jack T. Ranker  Elwood Stone Joseph H. Harris  Henry L. Jones Dr. H. A. Rodolf  æster O. Trabert  Homer Carroll  Harry L. Clark  Herb L. Klock  George Wakefield  Robert W. Littell  Dr. F. H. Pratt  eert E. Landweer  Est Green  W. H. Norton  Rhodes Bencer  M. A. S. Ahlberg  Wm. A. Bronson  Dr. Ed C. Guyer  Iton G. Wilson &  Dr. Jack Baker  Floyd D. Somers  Earl D. Brown  Less Fleischer  H. V. Toller  Less Fleischer  H. V. Toller  L. Russ Fleischer
Selvia Shal-Juan Shamrock Shamrock Shangri-La Sharie II. Mi Shellback Sheri-B Shirley Marie II	Rhodes Bpencer
Selvia Shal-Juan Shamrock Shamrock Shangri-La Sharie II. Mi Shellback Sheri-B Shirley Marie II	ohn L. Molianer Robert H. Hayes Jack H. Woods hn G. Holmstrom Ted Harris Ray Meyers William Godefroy Richard O. Mason Ernest W. Osgood Archie Johnson dward T. Rowse Frank C. Russell N. F. Oldenburg John R. Martin Jack T. Ranken Elwood Stone Oseph H. Harris Henry L. Jones Dr. H. A. Rodoli ester O. Trabert Homer Carroll Harry L. Clark Herb L. Klock George Wakefield Robert W. Littell Dr. F. H. Pratt ert E. Landweer M. H. Norton Rhodes Bpencer A. E. Ahlberg Wm. A. Bronson Dr. Ed C. Guyer Iton G. Wilson & Dr. Jack Baker Floyd D. Somers Earl D. Brown L. Russ Fleischer L. Roorstein M. E. Boardman

....Fred M. Arntson

Ontaden	A. F. Sulak
opieden	A. F. Duluk
Starqust	John F. Evich
Storm King	R. W. Mades
Subilaro	Fred Hasland, Jr.
Quele	Law Davies
Sucia	
Busie	N. J. Blanchard
Suzann	L. V. Clough
Tadpole	Fred P. Laudan
	Roland Cornelius
Tanda	Edwin W. Oban
Tang O' Sea.	John E. Baxter
Tarfu	Larry Brackett
	Percy O. Kidder
Tipsy Too	Frank E. Metz
Trimmership.	M. G. Shain
Ursus	E. B. Bearinger
Vegebond	Jack Meyer
V agabout	Maurice J. Kane
veronica 11	Maurice J. Rane
Vijac	Jack B. Hickman
Virginia	Fred Markley
Wahoma	Eugene V. Walby
Water Daby	Frank Carmichael
Wee MOOK	Jal Halls
	Alfred Ghezzi, Jr.
West Way	Bruce J. Mitchell
	Rudy Kasper
Wind Duch	William E. Lewis
Yankee	Philo W. Lund
Zephyr	Jim Morrison
Zetella	Duncan Jacobson
	T. M. Dennis
THE PARTY OF THE P	at. Denois

#### SAIL BOATS

		100000000000000000000000000000000000000
Aquarius	Lloyd	R. Calkins
Ariki		Ed Watts
Audrey		Percy White
Carol-Lynn	Ernest	A. Howisey
		oy E. Hoyt
Frinka	N	orma Bliss
Galenis	Victor	M. Ganzer
Gleam La	onard R.	Greenaway
Hornet	C.	A. Solberg
Ivana		A. Solberg
Kiletan	John V	V. Richards
Koru		
Little Bit	L	. M. Carter
		G. Schranz
Marymont	J. T.	DeFriel, Jr.
		M. Burdick
		iell Trosper
Nawin	Karl A	. Seastrom
Neoga II	*************	A. E. Peier
Serada	Dr. C. I	. Goodhope
Simmy	Henry	S. Sanford
Southern Ci		
Uwhilna	Alt	pert Lyford
Wandering	Lassie	L. Burton
Wee Two	Lew	is E. Bliss
White Cap	Dr. Dav	id Metheny
Yellow Cat.	Vel	
		Stanley

#### RAINIER YACHT CLUB Seattle, Washington

Calvin E. Eddy.......Commodore John T. Thomson......Secretary 9094 Seward Park Avenue Seattle, Washington

Boat			Owner
Adelaide	Wesley	H,	Wilkes
Admiral De	wey	******	Dewey
			dmayer
Beulah M			
Billy			
Bloop Bleep			
Carolyn			
Connie B			
Don			
Don Alda			

Don-MarieCharles H. Dahlgren	Aggie M
Duchees Edmund C Bold	Aldon
Eight Bells Joseph H Little	Aldon
Ellie R. Edwin S. Ramey	Alerion
Foxee Robert Clark	Alia
Don-Marie. Charles H. Dahlgren Duchess. Edmund C. Bold Eight Bells Joseph H. Little Eille R. Edwin S. Ramey Foxee Robert Clark Gladys Vec. Robert C. Brown Gulf Stream. Monte E. Brown Happy Days. F. H. and Holland F. Barrett Ha Ru E. Harold Wilson Husser Robert W. Brown Idlin Jett Lloyd M. Jett Jeanne II. Geo, Moore Jodl. Hayden Williams and John Swanson	Alerion
Gulf Stream Monte E. Brown	Annadon
Happy Days F. H. and	- A months
Holland F. Barrett	Arlene
Ha Ru E. Harold Wilson	Bad Girl
HusserRobert W. Brown	Barcaro R
Idlin Jett Lloyd M. Jett	Ariene Bad Girl Barcaro R Begoda II
Jeanne IIGeo. Moore	Ben Dora
Jodi Hayden Williams and	Benign
John Swanson Just Us. Wm. Harmon Kirby Mac. Dr. Arthur F.	Ben Dora Benign Bette R IV Big Dipper. Bilgewater II.
Just UsWm. Harmon	Big Dipper
Kirby MacDr. Arthur F.	Bilgewater II.
Tada Tan	
Lady Jean Alex and	Black Hawk
Tady Tuek Lionel F Moore	Blessed Event.
Laura Brasel P Looker	Blessed Event.
Laura Lou Vesero P Page	Blue Jacket
Margaret G. Floyd Turnbull	Blue Peter
Mayde Glenn Orlob	Blue Waters
Kirby Mac. Dr. Arthur F. Balkema Lady Jean. Alex and John Thomson Lady Luck. Lionel E. Moore Laura. Russel P. Looker Laura Lou. Vesero F. Page Margaret G. Floyd Turnbull Mayde. Glenn Orlob Miss Lakewood Louie Emmanuel Miss Lill. Wm. Mitchell Moonlight Maid. Murray Suthergreen Oke Doke. Ted V. Paulson	Bonnie
Miss Lill	Bonnie Barb I
Moonlight MaidMurray	Bonnie Lassie.
Suthergreen	By Play
Oke DokeTed V. Paulson	Cabaran
PatsyFrancis Ulrich	Candy
Peer GyntHorace A. Weston	Canim
Polly PenguinDavid B. Stowe	Carefree D
RUE M. D. Huckins	Carmelita
Oke Doke Ted V. Paulson Patsy Francis Ulrich Peer Gynt Horace A. Weston Polly Penguin David B. Stowe RUE M. D. Huckins Sandra Dawn Frank L. Wilson Sharry Lee Charles J., Jr.	Carolina
Sharry Lee Charles J., Jr. and Laurin E. Lamb Silver Wake. Cal Eddy Skipper II. William B. Custer Smoky Lloyd G. Scott Surplus Charles L. Stover Swallow. Wm. Poole Swiftsure. Klert S. Smith Tag.a-long. Aaron L. Lee Tahiti Baby. Harry L. Alcott Tazz. E. W. Lyen Three Jays. Hugh G. White Travelore. A. C. Ellington Triki. Grenfall L. Bell Victory. Myer Lurie Wally. Joseph L. Carmin Water Lou. Raymond D. Day Weemac. James C. McDougall Wendy Jane. Ed Tuttle	Casco Charbus II] Cheevy Cherub II
Gilver Wake Cal FAAv	Charbus II
Skinner II William R Custer	Cheevy
Smoky Lloyd G. Scott	Cherub II
Surplus Charles L. Stover	
SwallowWm. Poole	Clareu II
SwiftsureKiert S. Smith	Cobe Harmon
Tag-a-long	Commando
Tahiti Baby Harry L. Alcott	Continental II
TazzE. W. Lyen	The state of the s
Three Jays	Cookie II Copro II Cormorant
TraveloreA. C. Ellington	Copro II
Triki Grentali L. Bell	Cormorant
Victorymyer Lurie	CracoEdmun
Water Low Barmand D. Dan	
Weeman James C McDougall	Cyrilla Dabob II
Wandy Jane Ed Tuttle	Dabob II
Welldy Jane	Danelle
	Davey
	David Jr
	Davy F
SEATTLE OUTBOARD	Davdream
ASSOCIATION	DebitWm.
	DeeH
9000 51st St. Northeast	Dabob II Danelle Davey David Jr D Davy F J Davdream. Debit Wm. Dee H Deerleap Can Dermetics IV
Seattle 55, Washington	Dermeucs IV
	Dindy IvyVir
Art ShoreyCommedore	
Eleanor RankinSecretary	Dirigo Dolphin Bay
12517 5th N.E.	Dolphin Bay
	Dorene

Seattle 5, Wash.

Accolade David M. Williams
Addos John W. Rumsey
Admiral Harold Larsson
Adventure Otis B. Harlan

Owner

Aggie M. C. Noel	Caldwell
Aggie M. C. Noel Aldon. Dr. A. J Aldon. Donald L Alerion Edw Alja James M. Anna Lou Calmar Annadon. Donald C Aquito. Edward I Arlene Stanley E Bad Girl. L. M Barcaro. Ross W. St Begoda II. D. F	. Bowles
AldonDonald L	Rheem
AlerionEdwi	n Monk
AljaJames M.	Ballard
Anna LouCalmar	McCune
Aguilo Edward I	White
Ariene Stanley E	Youngs
Bad Girl L. M	. Norton
BarcaroRoss W. St	therland
Begoda IID. F. Ben DoraArn	t. Fisher
Benign Maurice N Bette R IV Jay G.	McCrary
Big Dipper P.	B. Eden
Bilgewater IIB. 80	hoenfeld
Billy Boy III Edgar E.	Cushing
Black HawkL. Everet	Landon
Blanch BD. Roy	Johnson
Rive Jacket Miller N.	Griffithe
Blue Jay Harry I	( Cahill
Blue PeterH. W.	McCurdy
Blue WatersRober	t Hutton
Bonnie Irving N.	Linnell
Bonnie Bard IIBe	Db Clime
Bette R IV. Jay G. Big Dipper. P. Bilgewater II. B. 88 Billy Boy III. Edgar E. Black Hawk. L. Everet Blanch B. D. Roy Blessed Event Ken H. I Blue Jacket. Miller N. Blue Jay. Harry I Blue Peter. H. W. Blue Watera Rober Bonnie. Irving N. Bonnie Barb II. B. Bonnie Lassie. E. C. By Play. O. W. Cabaran. Lynn O. Candy. Buel Canim. C. E.	Sinclair
Cabaran Lynn O	. Foster
CandyBuel	Hannum
CanimC. E.	Houchin
Cabaran Lynn O Candy Buel Canim C. E. Carefree D. H. F. Carmelita Norto Carolina G. P. Mc Casco Dale O C Charbus II. Ernest J. I Cheevy B. C. E Cherub II Lincoln	Hopkins
CarmelitaNorto	n Clapp
Casco Dale O C	rawford
Charbus II Ernest J.	Ketcham
CheevyB C. E	leck, Jr.
Cherub IILincoln	Bouillon
CitaCharles	B. Dunn
Close Harmony Meige	J. Tarte
Coho Wm McKe	v Davis
Charbus II Ernest J. J. Cheevy B C. E. Cherub II Lincoln Cita Charles Clareu II Reuben Close Harmony Meigs Coho Wm. McRa Commando Wm. E. Continental II	Bryant
Continental II	
Harold K.	Hovland
Cookie IIGilbert I	Hovland Duffy
Harold K. Cookie II	Hovland Duffy Dobbs
Harold K. Cookie II. Gilbert I Copro II. Fred P Cormorant J. P. Craco Edmund S. and	Hovland Duffy Dobbs Caldwell
Harold K. Cookie II	Hovland Duffy Dobbs Caldwell Truman Cragin
Harold K. Cookie II. Gilbert I Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilla. Verner O.	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen
Harold K. Cookie II. Glibert I Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilla. Verner O Dabob II. Harry D.	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson
Harold K. Cookie II. Gilbert I Copro II. Fred P Cormorant J. P. Craco. Edmund S. and Cyrilla Verner O. Dabob II. Harry D. Danelle Dan N.	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson Florito
Harold K. Cookie II. Gilbert I. Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilla. Verner O. Dabob II. Harry D. Danelle. Dan N. Davey. W. Ward	Hoviand Duffy Dobbs Caldweil Truman Cragin Jensen Larson Fiorito Davison T Hall
Harold K. Cookie II. Glibert I Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilla Verner O Dabob II. Harry D. Danelle Dan N. Davey W. Ward David Jr. Dr. Donald Davy F. Kenneth A	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson Florito Davison T. Hall Helms
Harold K. Cookie II. Gilbert I Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilia. Verner O. Dabob II. Harry D. Danelle. Dan N. Davey. W. Ward David Jr. Dr. Donald Davy F. Kenneth A Davdream W. Ey	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson Florito Davison T. Hall Helms rie Day
Harold K. Cookie II. Gilbert I Copro II. Fred P Cormorant J. P. Craco. Edmund S. and Cyrilla. Verner O. Dabob II. Harry D. Danelle. Dan N. Davey. W. Ward David Jr. Dr. Donald Davy F. Kenneth A. Davdream. V. Ey Debit. Wm. G. McMee	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson Florito Davison T. Hall Helms rie Day kin, Jr.
Harold K. Cookie II. Gilbert Copro II. Fred P Cormorant. J. P. Craco. Edmund S. and Cyrilla. Verner O. Dabob II. Harry D. Danelle. Dan N. Davey. W. Ward David Jr. Dr. Donald Davy F. Kenneth A. Davdream. V. Ey Debit. Wm. G. McMee Dee. Hawthorne	Hovland Duffy Dobbs Caldwell Truman Cragin Jensen Larson Florito Davison T. Hall Helms rie Day kin, Jr. K. Dent
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BindyLeonard Bindon
Bleep BloopLouis M. Roebke
Blue Water Frank I Carrie In
Blue Water Prank J. Carrig, Jr.
BluejacketJohn P. Lidral
BlythspiritWm. B. Laney II
BongigiRobert L. Faris
Bleep Bloop Louis M. Roebke Blue Jay Robert Gilmore Blue Water Frank J. Carrig, Jr. Blue Water Paul Webb Bluejacket John P. Lidral Blythspirit Wm. B. Laney II Bongigi Robert L. Faris Bonnie Harold T. Klein Brazen John A. Baillargeon
Bongigi Robert L. Faris Bonnie Harold T. Klein Brazen John A. Balllargeon Brazen Howard Zeck Kleige Folker
BreezyKiefer Fobes
Butterfly II Lars Lyngnes Caprice Dr. Gayton Balley
Richard W. Griffiths
Catspaw III  Richard W. Griffiths  Cene
ChandraJohn T. Jeffernan
Chandra John T. Jeffernan Chantey Robert F. Schoen Cheechako David B. Law
CherelynEvelyn Schmidt
Cherelyn Evelyn Schmidt Cho Cho Ban C. E. McKillop
Cholita Dolph Zubick
Circe Rev Cooks
Cirrus II John O. Warren
Coho
Coho A. Doug Sherwood
Comment of Protoborn
Corus Samuel K. Ketcham
Cho Cho San. G. E. McKillop Cholifa Dolph Zubick Chusan. Garrett Horder Circe. Ray Cooke Cirrus II John O. Warren Coho. C. P. Paschali Coho. A. Doug Sherwood Corus. Samuel K. Ketcham Crystal Jack A. Bell Cub. Tedrowe Watkins
Corus Samuel K. Ketcham Crystal Jack A. Bell Cub. Tedrowe Watkins Dahut C. Spencer Clark
Corus Samuel K. Ketcham Crystal Jack A. Bell Cub. Tedrowe Watkins Dahut C. Spencer Clark Daiquiri Ross F. Wood
Corus Samuel K. Ketcham Crystal. Jack A. Bell Cub Tedrowe Watkins Dahut C. Spencer Clark Daiquiri Ross F. Wood Dart Donald Graham, Jr. Derevo H. Handley Cloutier
Cub

Gypsy Heart August Buschmann H. H. Helen Dwight Hill, Jr. Happy DazeFrank A. Faget
H H Malan Postable Will In
n. n. neienDwight Hill, Jr.
Happy DazeFrank A. Faget HarpoonE. D. Perry
Harpoon E. D. Perry Heather Tom Farrell Helene V R. Scheumann Hobo. Wm. W. Watkins
Harpoon E. D. Perry Heather Tom Farrell Heiene V R. Scheumann Hobo Wm. W. Watkins Hornblower Russell Phinney Jr. Hornet Harold B. Murray Hussy. Dr. R. N. Rutherford Illusion Douglas L. Wilson Indian Scout. Richard H. Cahan Intrepid Dr. David W. Dale Ja Mal Pat Lowman Jan Nills Rossphere
Helene V B Schenmann
Hohe Was IV Western
Hood
Hornblower Russell Phinney Jr.
Hornet Harold B. Murray
Husey Dr P N Butharford
Many
litusionDouglas L. Wilson
Indian ScoutRichard H. Cahan
Intrepid Dr. David W. Dale
In Mal Pat Louman
Jan Nils Rosenberg Jandy David A. Norton Jandy Gordon Prentice, Jr. Jay Gee II. George H. Singer, Jr.
Jan
Jandy David A. Norton
Jandy
Jay Gee II George H Singer Jr
Jim-Jam Frank E. James, Jr. Jinker Robert Sebastion Kanaka Harris A Johnson Karen Karl A. Hostetter
Jim-JamPrank & James, Jr.
JinkerRobert Bebastion
Kanaka
Karen Karl A. Hostetter
Walnie Cahert W. Daillaggeon Iv
ReipieCebert W. Dannar Beon 31.
KnorasanFrank D. James
Kanaka Harris A Johnson Karen. Kari A Hostetter Kelpie. Cebert W. Bailiargeon Jr. Khorasan. Frank D. James Kibitzer. Wm. Y. Baker Kiahowya. A. W. Van Kirk, Jr. Koala. Dr. H. B. Garrigues Krishna. Michael Weaver, Jr. Kuon. Holden Withington
KlahowyaA. W. Van Kirk. Jr.
Koala Dr. H. B. Garrienes
Weighne Michael Weaver In
AriminaMichael Weaver, Jr.
Kuon
La GaviotaC. Frederick Harley
La Push Ronald Stovner
Today Alica Tobay Godonborn
Lady AliceJohn Boderberg
Lady Jane. Bert and Lang Hyde
Lady VanRobert Denny Watt
Laure Jean Kenneth Anderson
Latina Jeno Revold B Cons
Lenani Harold E. Gray
LemoloHugh P. Brady
Light Scout Donald H. Amick
Lightning Charles W. Ruehler
Lightning James W Hautland
Lightning James W. Havnand
Lightning BirdMargaretta
Hillman
Till Lufter Norman R Cole
The Latter worth to Core
LasaAnchor Jensen
Li'l Luffer Norman R. Cole Lisa Anchor Jensen Little Dipper Doug Fryer Little Mo Wm. and A. E. Crayne
Little Mo
Crayne
LivelyGarrett Horder
Long Story II. George P. Horton
Lorelei Don C. Proudfoot
Lovely Garrett Horder Long Story II. George P. Horton Lorelel Don C. Proudfoot Love Barrett Anchor Jensen
Lore Barre Anchor Jeneen
Lively Garrett Horder Long Story II George P. Horton Lorelel Don C. Proudfoot Love Barge Anchor Jensen Luff John M. Peterson
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Naney Ann	Jo	hn Roren
	and J.	J. Harris
Nautilly	Richard	L. Miller
Nautilus III 7	Robert	MacRae
Navigo	Virgini	a Vining
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Nawitka	Edward	C. Graff
Neoga	Allen	B. Engle
Night Witch	Jeorge M	mbaldini
Nimble	Allen B	. Dorney
Nimbus Dr. I	rving An	derson &
	Frank	Calvert
Nixie	Marshall	Perrow
Nootka	Keit	h Fisken
North Wind	.W. M.	Crawford
OceanidMa	urice Rat	tray, Jr.
Odyssey	Henry T	Meador
Opus T	Samuel	L. Lake
Opus I	A. C	. Risbell
Oregon Star	Jo	hn Cram
Otaheite	M. W	Brower
Pampero	Henry	A. Ellers
Paper Doll	James H	Henkel
Passat	T	om Wells
North Wind Oceanid Ma Odyssey Ono Opus I Opus I Oregon Star Otabeite Pam Pampero Paper Doll Passat Pequod Alex Pete Too Phynnodderee Pinky Prim Pocomoto Dr. Pody Wa Pole Star Mrs. Prelude Ri	inder A.	Bill, Jr.
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Pinky Prim	James V	V. McKee
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	Lielanc	ev Lewis
Red Jacket	.Geo. H.	Parsons
Red Jacket	Malcoln	Parsons lordon & Villesik
Ripple	Malcoln J. Gje	Parsons fordon & Villesik en Liston
Risken Rival	Malcoln J. Gie Ernest A	Parsons lordon & Villesik en Liston Banner
Risken Rival Rory D	Malcoln J. Gie Ernest A ouglas J.	Parsons lordon & Villesik en Liston Banner Stimson
Risken Rival Rory D Rowan Rowdy	Malcoln J. Gie Ernest A ouglas JRay Se	Manual Villesik Manual Liston Manual Banner Stimson Shutt, Jr.
Risken Rival Rory D Rowan Rowdy	Malcoln J. Gie Ernest A ouglas JRay Se	Manual Villesik Manual Liston Manual Banner Stimson Shutt, Jr.
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Risken	Malcolm J. Gle Ernest A oughs J. Ray Sc Eliz R. A. Russell arrett G. ayne Mu	Villesik m Liston . Banner Stimson shutt, Jr. abeth & Osborne H. Huff . Sweany rray, Jr. Cranston
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TealJames C. Bleit	
TenderfootR. F. Campbe	
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Taruga Robert E. Prices Teal. James C. Bleit Tenderfoot R. F. Campbe Thesis E. F. S. Chamber Tide Donald Adam Tipsy Petty Ryan and Sherro Van Antwer Tola Charles Olmstea Tops Robert S. Moore. Ji Toujour Girl Albert Patni True Luff Bjarne Jense Twenty Four Wm R	
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WahooWm. E. Boeing,	83
Wateries John T Jacob	4
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#### SHOREWOOD YACHT CLUB Mercer Island Seattle, Wash.

E. J. Martin	Commod
Strat Biddle	Secretary
Boat	Owner
Bon-Jea	Wesley Fry
	Strat Biddle
	J. R. Potter
	sorge Singer, Jr.
	avid W. Whitlow
Lil Darlin'	W. B. LeValley
	Lyle Parmely
	E. J. Martin
	James Swanson
	Harley Nygren
	.Edwin Harrison
	J. W. McKee
	obert H. Bendig
Winkin	Fred Bundt

#### SPOKANE SAILING CLUB W. 309 Second Spokane, Wash.

Spokane, Washington

Boat	Owner
Cape Cod Dr	R. N. Hamblen
Flattie	Len Burge
Isabella	Don Blume
Inertia III	Frank Weaver
Jo Jo K	John Kendali
Lex In Se	Jack Dibblee
	Harold Moss
	C. A. Veasy, Jr.
Night Wind	Joe Andrews
	J. F. Amsberry
Rascal	Warden Hanel
Snafu	Harold Thompson
	Howard Damon
	Marion Hay
	Robt. Johnson
	Boardman Nolan
	O. C. Calkins

#### SWINOMISH YACHT CLUB LaConner, Wash.

G. E. "AP" Knapp....Commodore Frank Sauford.......Seey.-Treas. Mt. Vernon, Wash.

Boat	Owner
Bronze God	Robert Dursch
Charlotte	D. J. Lawson
Dartaway	John W. Cook
	G. E. Knapp
	Forest Prater
Flying Cloud	George McMillan
	Claud Davis
	Claud Sanford
Jastel	John C. Cox
	Henry G. Cooper
King Thor	Martin Olson
Lady Leck	Jim Leckenby
Marylin	Frank   Sanford
Respite	F. Rasmussen
Rita Anne	E. Mersereau
Sea Queen . 1	Don & Bob Maloy
	I Herb Gardner

#### TACOMA YACHT CLUB Point Defiance Park Tacoma, Wash.

William A. Kunigk...Commodore Otto L. Johnson......Secretary

#### POWER BOATS

Owner

Hont	Owner
Aeolus	Dr. A. L. Schultz
Alibi	Doug Coates
Alida	Willard Andre
	Frederick B. Wright
Altamaha	Chas. F. Hufford
	L G. Allotta
	Olaf Ericson
Aqua Tahqu	ultz
	Caryle F. Muehler
	Stanley V. Dunning
	Robt. S. McLean
	Charles W. Hoffman
	Ray R. Kelly
	B. T. Sjoboen
Bea Mac	E. R. Sizer
Bella	W. H. Lindberg
Bemargin	Charles Wolf
Ben Bay	Peter F. Bennison
	Bert Bradley
	Gershom C. Rowland
	J. A. McDougall
	Rufus Parker
Bonny Belle	Carter Lee
	Geo. Thompson
Bregita	Dr. J. W. Gourley

C. B. D. Wm. La Vasser Can Do Art Rowe Cascadian Russell W. Ross
Can Do. Art Rowe Cascadian Russell W. Ross Cacelia J. C. Bekemans Cinnebar II N. L. Rose Clara-Joan II. Mitchell Skansle
Cascadian Russell W Ross
Casalia I C Bakamana
Ceceia J. C. Bekemans Cinnebar II. N. L. Rose Clara-Jean II. Mitchell Skansle Colleen L. G. Peck Coralie Ted Hill Corky, Too. A. C. Barnett III.
Cinnebar II
Clara-Jean IIMitchell Skansie
Clara VC. A. Kints
Colleen L. G. Peck
Corolie Ted Hill
Corky TooA. C. Barnett III
Crest 100 A. C. Barnett III Crest Haldor Dahl Cristy Jane Prederick C. Wolf Cromwell C. E. Powell
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Cristy JaneFrederick C. Wolf
Cromwell
Daphne Chas. Reberger
Down Anton Johnson
Divie III Pronk I Liles
Diale IIIFidin I. Lates
Dioran Haroid C. Gates
Do-MarHerman E. Tenzler
Don-LoisJohn Lester
Dorette Mrs. Harvey Kellogg
Doris II John Rule
Dorothy-Jeanne E L Cleveland
Donothy III M W Ditte
Dorothy III
Dot Tom Mairs
Driftwood L. T. Barker
Duchess IIDr. Ross D. Wright
Dyk-N-VyeFrank Willard
El Primero B. A. Perkins
El Tejano F D Dean
Cromwell. C. E. Powell Daphne. Chas. Reberger Dawn Anton Johnson Dixie III Frank I. Liles Dlorah Haroid C. Gates Do-Mar. Herman E. Tenzler Don-Lois. John Lester Dorette Mrs. Harvey Kellogg Doris II. John Rule Dorothy-Jeanne. E. L. Cleveland Dorothy III. M. W. Pitts Dotter Mrs. L. Tom Mairs Driftwood L. T. Barker Duchess II. Dr. Ross D. Wright Dyk-N-Vye. Frank Willard El Primero. S. A. Perkins El Tejano. F. D. Dean Elsa. Anton Petrich
El Tejano. F. D. Dean Elsa Anton Petrich Escape Henry Wagner Euforia. Treacy Duerfeld Fairliner Allen and John Petrich Fliesta. O. H. Brasier Flicken. Anton Ohlson Frala Frank Heffernan Fred Mar Clay Clayton I.
Escape Henry Wagner
EuforiaTreacy Duerfeldt
FairlinerAllen and John Petrich
FlestaO. H. Brasier
Flicken Anton Ohlson
Frais Frank Heffernan
Prod Man Clay Clayton Y
Fred Mar Clay Clayton I. Thomas
Free LanceWilliam L. Worden
Free LanceWilliam L. Worden
GadgetRobert C. Bourdon
Gallant Lady M. C. Riggs
Cedoca Harold T Screngen
Con III Can W Dandenbuch
Geo. IIIGeo. W. Raudenbush
Gadget Robert C. Bourdon Gallant Lady M. C. Riggs Gedoca Harold T. Sorensen Geo. III Geo. W. Raudenbush Gilp C. F. T. Rowe
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GlenoraW. H. Van Horn
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Geo. IIIGeo. W. Haudenbush Gilp. C. F. T. Rowe Ginni BelleGeorge Baydo, Jr. GlenoraW. H. Van Horn Glory-BeCharles Love Green-Wing. Lloyd Eberhardt Greenwing. Lloyd J. Eberhardt Happy HoursRay Howe Heather Rell. A. D. Williams
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Petanr Picaro Picaro Puget Ray-V Resear Richlu Riptide Robert Rob	na Hoon III III era Cch III a Ann a-Gene Wood r J III Rosa ceeze J III III Rosa ceeze Lady ook Colliss IIIst Come control Colliss IIIst Come control Colliss IIIst Come Colliss IIIIst Come Colliss IIIIst Colliss IIIIst Colliss IIIIst Colliss IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	arold F. Sidney Raym Wn Wn Bernus ' Erni'. J. R. Clifford Rob Harold Clifford Bert Wal Victor B Otto Russ Forre Otto L Howell Albert Frank Eug J. J. H Lloyd W Raym	Peterson  d. Grilley Conquest ond Scott  n. Parker W. Recob e Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael est Lyons Johnson Johnson Johnson E. Fuller ene Rose untington aterhouse aterhouse ond Wall
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petani Picaro Pluget Ray-V Resear Richlu Riptide Robert Robert Robert Robert Robert Robert Rosear Radge Romar Ruby Santa Sea-Ca Sea-Ca Sea-Ca Sea	na Himon III era Dria Ann An	arold F. Sidney Raym Wn Bernus \ Erni J. R. Clifford Rob Clifford Bert Wal Bert Wal Otto L. Howell Albert Frank L. John L Lloyd W Raym Raym	Peterson  d. Grilley Conquest ond Scott.  n. Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Welters
Petanr Picaro Puget Ray-V Resear Richlu Robert Robert Robert Robert Rober Rodge Rodge Rodge Romar Sea-G Sea Seas Seas Seas Seas Seas Seas Seas Seas	na Hoon III III era change in the change in	arold F.  arold F.  Sidney Raym Wrn Bernus \ Erni J. R. Clifford Robb A. Harold Clifford Bert Wal Victor B Otto Russ Forre Otto L. Howell Albert Frank T. Kenn Jac Earl F. Bartlett Ralp) Free	Peterson  d. Grilley Conquest ond Scott Parker W. Recob e Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte . Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Walters eth Ollar k Shipley C Barker Rummel R Still Ludwig Ludwig Ludwig Ludwig
Petanr Plearor Plearor Ray-V Resear Richlu Robert Robin Robert Rob	na Hoon III III era change in the change in	arold F.  arold F.  Sidney Raym Wrn Bernus \ Erni J. R. Clifford Robb A. Harold Clifford Bert Wal Victor B Otto Russ Forre Otto L. Howell Albert Frank Frank T. Kenn Jac Earl F. Bartlett Ralp) Free	Peterson  d. Grilley Conquest ond Scott Parker W. Recob e Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte . Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Walters eth Ollar k Shipley C Barker Rummel R Still Ludwig Ludwig Ludwig Ludwig
Petanri Picaro Picaro Piuget Ray-V Resear Richlu Robert Ro	na Hoon III III era La	arold F.  arold F.  Sidney Raym Wm Wm Bernus \ Erni J. R. Clifford Robo Clifford Bert Wal Clifford Bert Wal Clifford Bert Wal John LL Howell Albert Frank Eug J. J. H. John L Lloyd W Raym Frank T Kenn Jaci Earl F Bartlett Ralpl Free B. Iarold	Peterson  d. Grilley Conquest ond Scott Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte . Johnson Drahold Michael est Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Walters eth Ollar k Shipley C Barker Rummel e K. Still Ludwig F. Smith Thompson
Petanri Picaro Picaro Piuget Ray-V Resear Richlu Robert Ro	na Hoon III III era La	arold F.  arold F.  Sidney Raym Wm Wm Bernus \ Erni J. R. Clifford Robo Clifford Bert Wal Clifford Bert Wal Clifford Bert Wal John LL Howell Albert Frank Eug J. J. H. John L Lloyd W Raym Frank T Kenn Jaci Earl F Bartlett Ralpl Free B. Iarold	Peterson  d. Grilley Conquest ond Scott Parker W. Recob ee Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte . Johnson Drahold Michael est Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Walters eth Ollar k Shipley C Barker Rummel e K. Still Ludwig F. Smith Thompson
Petanri Picaro Picaro Piuget Ray-V Resear Richlu Robert Ro	na Hoon III III era La	arold F.  arold F.  Sidney Raym Wm Wm Bernus \ Erni J. R. Clifford Robo Clifford Bert Wal Clifford Bert Wal Clifford Bert Wal John LL Howell Albert Frank Eug J. J. H. John L Lloyd W Raym Frank T Kenn Jaci Earl F Bartlett Ralpl Free B. Iarold	Peterson  d. Grilley Conquest ond Scott Parker W. Recob e Ohlson Campbell C. Clark ert Wolff W. Pitts H. Billie Paulson Sundgren ter Witte . Johnson Drahold Michael sst Lyons Johnson A. Nash Sandberg E. Fuller ene Rose untington Plowden aterhouse ond Wall Walters eth Ollar k Shipley C Barker Rummel R Still Ludwig Ludwig Ludwig Ludwig

Tabolah J. T. Bennett
Terron Buford L. Payson
Thea Foss Henry Foss
The BobbinJudd Day
Theima KStanley N. Kolitzoff
Theo LoTheo Zimmerman
Thora Gay Dr. Roy F. Henry
TinkerJames W. Loveland
TiogaRoy Virgil
Tom-KatE. D. Thompson
Trade Wind
TravelerJohn Fletcher
Trim Too Stanley Steel
TritonG. W. Wright
TrostigJohn H. Anderson
TyeeJames DePolo
ValaronNorman D. Kear
VeniceRoscoe B. Shiley
VentureErvin Z. Fredricks
Villa LouA. M. Dabroe
Wee Chinook Dr. C. E. Stafford
White CapR. G. Hawkins
White SprayW. W. Gaudreau
Willmar H. O. Ekre
Will-OWill H. Oliver
WillopegW. H. Ostruske
Yankee William A. Kunigk

#### SAIL BOATS

Adelphi	
	Irs. W. D. Christie
	and J. Arnston
Anada	E. R. Johnson
	Al Faithfull
	Dick Christensen
Cinnebar	Ben Rarry
	Dick Williams
	Dr. Wm. Taylor
	B. De Mars
Donna II	L. Wasserman
Emouad	Ken Hore
Eric	Don Christensen
	Wm. Nichols
	John Potter
	M. Powell
	Paul Plotts
	Neal Nelson
	N. Christensen
Aurit	Call intellment

Jo
Jo
Loki Fred Haley
Lorilei Jack Evans
MarjuneMartin Stockwell
MarnieWm. Dobbyns
NautillyDudley Bothel
Nautilus III Harbine Monroe
Netha
N'Heaven TooBob Anderson
Nixie Marshall Perrow
Nixie Marshall Perrow
PenguinH. C. Perkins
PopeyeF. F. and R. P.
ReverieDr. Gov. Teats
ReverieDr. Gov. Teats
RipplesWm. Christensen
Roddy Tot Edwin E. Bare, Jr.
SaturnaDr. J. O. Tavlor
Scarlet ClipperKirk Hull
ScheherazadeTom Falk
Swiftsure A Gratzer
Symra Wm. Larson
TalofaJ. G. Robinson
Thorobred M. G. Cookingham
Tiu Frank Boskovich
TotemJack McPherson
WeeiammerR. McMahon
Wendy I
We ThreeL. M. Rosenbladt
White Cloud IIRad Pratsch
White Cloud IIRad Pratech

#### TYEE YACHT CLUB The Marina Mart 1500 Westlake N. Seattle, Washington

Russ T	hompsonCommodore
William	RolsSecretary
	4656 41st N.E.
	Senttle, Wash.

Boat	Owner
BirdieDe	e Dorsten
Blue SkiesFran	k Stevens
	P. Hall
	cil Pullen
Debit William	McMeekin

Delver	B	Elwin	O. Ph	elps
Gayle		Paul E.	wiii	ams
	ш			
Katrini	ka	Lloyd	Nacht	way
Moon 1	Mist	Walter	M. H	lupp
Photo	Queen	J. D. 1	Villian	noon
Sea Tr	ramp	Harold	Salv	eson
Tassie	Ouca	FE. W	elden,	Jr.
	J. 1			
Vagabo	nd	Jac	k Me	yers
Venida	0	Edwi	n J. C	sios
Veterin	ario D	r. T. W	7. Pen	fold
Vicul	**********	Cult	on Gre	eene

#### 20-KNOTTERS c/o Aero Marine Club Sorrento Hotel 1001 Terry Ave. Seattle 4, Wash.

Jack Henderson ......Commod of Jerry Bryant.....Vice-Commod of 1117 E. Northlake Seattle 5, Wash.

#### UNIVERSITY OF WASHINGTON YACHT CLUB 307 Hub

University of Washington Seattle 5, Washington

William R. Larson....Commedon Miss Thea Gevers......Secreta

### YAKIMA BOAT CLUB

Rimrock Lake, Washington
Joseph Faucher.........Preside
A. M. Willoughy.....Sec'y-Tree
1003 N. 10th Ave.
Yakima, Washington

# **Oregon Yacht Clubs**

#### ASTORIA YACHT CLUB Route 3, Box 7 Astoria, Oregon

Wesley S. Shaner......Commodore

A. H. Ojn	Secretary
Boat	Owner
Al's Pal	Allen H. Larson
Bee & Bee	A. W. Johnson
Beverly G	Albin P. Anderson
Blue Heron.	Ernest P. Hayes
Bonnie J	Nick Kussman
Buddy	
Bunny I	Ralph W. Beaty
Carry On	
Cheerio	E. T. Edison
Dog House	2John H. Kilpack
	and Robert Lovell
El Dandee	Fred Haroer
	Dr. Clyde Parlova
Fada	Al Downs
Falcon	J. C. Johnson
Hawkeye	Robert A. Hawkins

Ida MaeJ. W. Jarvis
Jan-RonDon V. Johnson
JeDaWeWesley S. Shaner,
Gerald Phillips and
Dave Shaner
Jela Larry Snyder
JoanKenneth Noll
Judy BGordon Branthover
Karen E Capt. F. S. Elfving
LaurelynE. G. Griffith
Little Beaver Forrest LaBeck
Little BitClyde Branthover
Little MoHenry J. Kaufman
Lu-Mar Charles B. Mabry
Madam QueenErnest Kerola
Marie Bruce A. Thomas
MaybeCliff May
MelroseMelvin Sorenson
Merrily Dr. George H. Thomas
Michael LCharles Macy
Miker Albert Sorkki
Mule DozerBob Larson
MyrdaJohn D. Lawson
PeggyArne Jýlha
Ruth E Merrill Ginn and
Bud Clark

Sans Souci Cameron C. Buttle
Sarah Sue Axel R. Englund and
Orval Eaton
Seabreeze. Dr. Robert Neikes and
Jack Reed SkippyEdward Salomonsen
Susan DL. W. Trenholm and
R. L. Hughes Trudy EPhilip J. Weinstein
ValourisJ. H. Kelly
What-A-Man 2Bill Reed

#### BONNEVILLE YACHT CLUB P.O. Box 692 Bonneville, Oregon

Clarence	J. HaightCommod	ore
Frank J.	HolzgangSecreti	AFY
Book		

Boat	Owner
CascadeW. F.	Seymour
Chicadee	Robertson
MaritimeH.	L. Leach

Megohm	H.	W.	Griffith
Oneonta			
Osprey		R. A	Welch
Pamela	Jack	J. C	orcoran

#### COLUMBIA RIVER VACHT CLUB

#### 7919 N.E. Marine Drive Portland, Oregon

W. L. "Bill" Marsh.Commodore K. H. Brookes......See'y-Treas.

Boat	Owner
Alice R	J. Rosenthal
Alma J	J. Rosenthal Geo. Johnston S. A. Battaglia C. W. McGee A. W. Johnson Floyd Bay M. D. Westover W. H. Crossley Robt. Howard Joe Gilray
Amigo II. Annabelle. Bee & Bee. Betty B. Biff II.	C. W. McGee
Bee & Bee	A. W. Johnson
Betty B	
Bil-La	W. H. Crossley
Boge	Robt. Howard
Bonnie G	Joe Gilray W. H. Smith
Buil Frog	A. B. Crum
Cat Boat	The Th Discosium
Champion	C. Perkns
Charlie Martin.	C. Perkns Chas. Ulrich Dr. C. Yost M. Glanz
Chastina	M. Glanz
Clancy	Ed Hargrave
Clint'n Kay	C. C. Fleet
Comanche	R. Kennedy
Crystal R	W. L. Rueppell
Cub	G. E. Lyons
Dan Flo Danny Bruce	R. Kennedy W. L. Rueppell G. E. Lyons H. Daniel N. L. Ellis
Tlanny Dat	L. A. Perkins
DerijeanD	L. A. Perkins H. Bussard, Jr. Dr. R. R. Roy
Doray Dor Kay	Dr. Chris Kisky
Derothy K	A N Kullhere
Duchess	V. Powell
Elaine B Enid III	V. Powell H. Barnard Otto Houk
Erlena	Earl McCuddy
Escape	Earl McCuddy G. P. Smith Wm. Way C. Lundberg
Four Ways	C Lundberg
Georgina II	Cliff Andruss
Gillie	
Gisela	W. G. Peterson
Graying	W. L. Marsh
Helen	F. Tuffs
Heien B	H. Brookes
Honey	L. Armstrong
Impulse	L. Armstrong
JadeJedaba	T. Gevaart D Weiner A. W. Bryant
Jo-An	A. W. Bryant
Joanne	R. Montgomery Wayne Nagle
Joe Dodge	R. Selli
Kentucky	Dr. H. Atwood
Kittiwake	V. Kuykendal
Klick-Tat Kruse On	8. Durkheimer
Leigh Ora	
Lillian	W. C. Cooper F. Jamerson
Luray	Ed Jewett and
	R. B. Henry
Maidowyn	R. B. Henry Lee Karr M. Gerlack F. G. Swenssor
Marcus Gee	F. G. Swenssor
Margie B	Lester Beckmai
Mariee	
Marlin	E. J. Sheahar
Mary L	A. Lovering
-	

Merigetta	D. M. Shaw
Merry Lon	Dr F Hunter
Morry-Mac	H McNell
Merry Lou	C A Hueley
Michehavin	D Ownbox
Miss B II	Dean Brucon
Manage Da	Washin Bryson
Nancy De	Harry Tucker
Norm Andy	C. O. Anderson
Norm Andy	C. U. Anderson
Onandel Patken	I. W. Schaer
Patricia-Ann	W. Kenney
Patricia-Ann	R. Pantascn
Penny Lee	Dr. G. Lage
Periwinkle	B. Woodyard
Pintail	. K. Birkemeier
Polaris	F. Riverman
Poo Too	Don Stout
Princess Annette.	A. Pearson
Rambler	L. Barber
Ranger	A. Schmid
Ranger	brook J. Sinner
Rite Ry Dr	Geo Guldager
Rubaiyat	Orville Smith
Rubaiyat	Orville Smith
Rubaiyat Sea DressDr. 1 Sea Lark H	Orville Smith D. B. Seabrook I. Garrabrant
Rubaiyat Sea DressDr. 1 Sea Lark H	Orville Smith D. B. Seabrook I. Garrabrant
Rubaiyat	D. B. Seabrook J. Garrabrant R. S. F. Crynes W. Selover
Rubaiyat. Sea Dress. Dr. Sea Lark. H Sea Band. D Sea Wolf. Shasta.	D. B. Seabrook J. Garrabrant S. F. Crynes W. Selover J. Martin
Rubaiyat. Sea Dress. Dr. 1 Sea Lark. H Sea Sand. D Sea Wolf. Shasta. Sing II	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick
Rubaiyat. Sea Dress. Dr. 1 Sea Lark. H Sea Sand. D Sea Wolf. Shasta. Sing II	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick
Rubaiyat Sea Dress Dr. Sea Lark H Sea Sand D Sea Wolf Shasta Slug II Spunky II Stude O	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Linebam
Rubaiyat Sea Dress Dr. Sea Lark H Sea Sand D Sea Wolf Shasta Slug II Spunky II Stude O	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Linebam
Rubaiyat Sea Dress Dr. Sea Lark H Sea Sand D Sea Wolf Shasta Slug II Spunky II Stude O	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Linebam
Rubaiyat Sea Dress Dr. Sea Lark H Sea Sand D Sea Wolf Shasta Slug II Spunky II Stude O	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Linebam
Rubaiyat. Sea Dress. Dr. Sea Lark. H Sea Sand. D Sea Wolf. Shasta. Slug II. Spunky II. Susie Q. Tashmoo Thelma. E Tile It.	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr
Rubaiyat. Sea Dress. Dr. Sea Lark. H Sea Sand. D Sea Wolf. Shasta. Slug II. Spunky II. Susie Q. Tashmoo Thelma. E Tile It.	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr
Rubaiyat. Sea Dress. Dr. Sea Lark. H Sea Sand. D Sea Wolf. Shasta. Slug II. Spunky II. Susie Q. Tashmoo Thelma. E Tile It.	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr
Rubalyat Sea DressDr.   Sea Lark	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr F. Pittard Lee Clyde
Rubaiyat Sea Dress. Dr.   Sea Lark. H Sea Sand. D Sea Wolf.   Shasta.   Slug II.   Spunky II.   Susie Q.   Tashmoo   Thelma E Tile It   Time Out.   Vagabond   Vesta Lee.   Virginia Lee	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr F. Pittard Lee Clyde
Rubaiyat Sea Dress. Dr.   Sea Lark. H Sea Sand. D Sea Wolf.   Shasta.   Slug II.   Spunky II.   Susie Q.   Tashmoo   Thelma E Tile It   Time Out.   Vagabond   Vesta Lee.   Virginia Lee	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr F. Pittard Lee Clyde
Rubaiyat. Sea DressDr.   Sea Lark	Orville Smith D. B. Seabrook J. I. Garrabrant F. B. F. Crynes W. Selover J. Martin P. Dick H. Linn J. Lineham Dr. J. Hutton L. Colver, Jr. H. Lewis T. P. Pittard Lee Clyde Jack Harroun L. Persing W. Lauer
Rubalyat Sea DressDr.   Sea Lark	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr F. Pittard Lee Clyde Jack Harroun L. Persing W. Lauer A. James
Rubaiyat. Sea DressDr.   Sea Lark	Orville Smith D. B. Seabrook I. Garrabrant r. S. F. Crynes W. Selover J. Martin P. Dick H. Linn Dr. J. Hutton L. Colver, Jr. H. Lewis Dr. P. H. Starr F. Pittard Lee Clyde Jack Harroun L. Persing W. Lauer A. James

# COLUMBIA RIVER YACHTING ASSOCIATION

Robert H. Calef.......President 6325 N. Missouri Ave. Portland, Ore.

Floyd H. Bay......Vice-President 3424 N.E. 25th Ave. Portland, Ore.

Robert A. Smith.....Secy.-Treas. 1835 N.E. Fremont St. Portland, Orc.

#### COOS BAY YACHT CLUB Post Office Box 296 Coos Bay, Oregon

Leigh Lyon	SecyTreas.
Boat	Owner
Adios	Bob Sheedy
	George Vaughn
Easter Sunday	C. P. MacNab
Furious	Leo Frisk
	Edsil Hodge
	Fred Schepman
Irish	Ken Ireland
	r. Domonic Megale
Pelican	Curtis Nagle
Sea Duty	M. O. Littrell
Shower	Elmo Gorbutt
Southpaw	Mack Barber
Stormy	Cari Damm
	Leigh Lyon
	Frosty West
	R. L. Bickett
Vahanna	II W Cleanway

#### DEVIL'S LAKE YACHT CLUB

#### Box A-A Delake, Oregon

George Calkins Wilma Calkins	
Boat	Owner
Ermintrude	
Gary-Lyn	Clair Floyd and John Pizzuti
Louise	Lloyd Calkins
Miss Toledo My GalTe	
Suzq Q	Joe Dolan

#### EUGENE YACHT CLUB

#### Fern Ridge Lake Eugene, Oregon

Dr. E. D. Furrer......Commodore Victor R. Walder....Sec'y-Trens. 1375 W. 11th Ave. Eugene, Oregon

Adabelle	Owner
Adabelle	R. Bench
Al-Gee	A. C. Stockstad
Almarie	M. Batchelor
Annette	R. Paden
Rahy	D Wins
BabyH. G.	Chickering Ir
Bionale	Paul Hunter
Bobber	R. F. Schulz
Brown Bomber	D. Smith
Chick	.L. W. LaBare
Bobber Bown Bomber Chick Chlo-E Dolly Too Di Donrale Dreamboat Vi	G. V. Gassman
Dolly TooDr	E. D. Furrer
Donralee	T. A. Stocker
Dreamboat Vi	etor R Walder
Eddie B. &	ctor re. mander
Eddie D. To	E T Bennett
Eddie B. Jr	E. C. Onderes
Eddie B. Jr Ed-Rita	C. Oraway
Elaine	J. W. Elimaker
Elveta III	
Flat Foot	R. Stocker
Gusty	B. Forney
Holiday	C. F. Johnson
Humboldt 1	C McGovern
I Dood It	F K Davis
I Dood It.	TY M Williamine
J and J	A. I. Wittshire
Jani-KayeChi	is. E. Edwards
Jay Dee	J. D. Mills
Jay Whizz Dr.	L. T. Campbell
L. K. S	T. Smith
Marg-Etta	R. Fraser
Miss Eugene II.	D. Wilfert
Miss Fortune	E E Collombo
Miss Portune	M H C Potterf
NTI-	A Tiffany
NID	E Diamet
Prowier	E. Piquet
Prowler	Walton Page
Red WingDr	. J. E. Scotleid
Reluctant Tadpol	eW. J.
First Foot. Gusty Holiday. Humboldt. I Dood It J and J. Jani-Kaye. L Ch Jay Dee. Jay Whizz. Dr. L. K. Miss Eugene II. Miss Fortune. Nip. Prowler. Prowler. Prowler. Red Wing. Dr. Reiuctant Tadpol	Wheeler
Reno II	Noel Pirtle &
Rum Dum	E P Deardorff
Sange	Harold Show
Senga	Haroid Shaw
BRRIKY	Ray Netson
Snooper	H. J. Jones
Sharky	George Gazeley
Swan	Nick ZenZen
Swan	T. Korn
Vendovi	A. F. Richards
Virginia J.	J. Nasholm
Walita	W. LaDusire
Windrush II Zombie	K Blanding
Windrash 11	M T Cterrent
zomble	M. L. Stewart

#### NEWBERG BOAT CLUB

A. B. Christle.....Commodore Gelene Hills (Mrs.) ..... Secretary 815 E. 3rd St. Newberg, Ore.

#### OREGON OUTBOARD ASSOCIATION Rt. 3, Box 678 Salem, Oregon

Elmer Knight...... Commodore Frances Everly ..... Seer.-Treas.

#### OREGON YACHT CLUB The Oaks Park Portland, Ore.

Virgil Cooper ......Con Elsle Lachmund..... Secretary

#### PENDLETON BOAT CLUB McKay Dam, Highway 395 Pendleton. Ore.

Clarence Mumford.....Comm Henry Hess.....

#### PORTLAND VACHT CLUB 1241 N.E. Marine Drive Portland 11, Oregon

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Gee Bee III C. E. Gunderson
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Gerry KDr. H. A. Krumbein GladyJ. M. Harder
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NantucketWayne Aikea
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NorthwindAsel C. Eoff
Omard J. F. Francis Ospray Edwin Sandberg
Ott's YottI. E. Ott
Patty Ann II Stafford G. Jennings
Periwinkle Bart Woodyard
Phantom
Pixie Harvey Jordan
Pourqua F. E. Battaglia Power Harold Koppang
Pambler Lawrence Barber
Ranger John T. Wiitala Redwin Edwin C. Davis
Rejo
Reiax L. R. Husea Ripple Melville B. Brown

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Tillicum Floyd O. Sman
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Trident A M Magne
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VagabondDr. E. W. St. Pierre
Valepenade
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Wind Push Dr Wallace Haword
Winifred JArthur T. James
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	William B. Gruetter
Keith	A. E .Countryman
	Leon K. Martini
	Geo. W. Sutton
Nobola II	John H. Huber
	Ray Brunkow
Pajarita	
Reatha V	Keith Vincent
	ye. John T. Schneider
	Elton M. Fannon
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Sivad II	
	Evans Davis
	Wade W. Cornwell
	Tom W. Green
	E L Nutter
	. Harold E. Spoelstra
	Edw. H. Cameron
Yafta	Russell Rogers

#### RIVERSIDE YACHT CLUB Canby, Oregon

Cinire	Haines	Commodore
Nancy	Lamb	Sec'y-Treas.
	Route	3. Box 390

Canby, Oregon

Boat			Owner
Buttons			
Gypsy II Hound Dog	III R.	B. K.	Lamb
LamzyLurky		R.	Lamb

Punkin	Beed	1	R. I	B. Hale	
Seniah				Haine	
	J.				
Will-of-	the-Wind	J.	Gr	OBSMAI	À

#### SOUTHERN OREGON BOAT CLUB, INC.

#### 2 Miles Above Savage Rapid Dam on Rogue River Ashland, Oregon

		manu,	ore?	-	
Harold	Litte	ell	C	ommo	dore
D. J.	Wiles	Œ	Se	cyTr	rens.
c/o R	ogue	Valle	y Mi	arine	Co.
Boat				01	vner
Aljoy		We	ston	Fowle	r &
				ke W	
Aurora					
Boat E					
Fisher					
Golden	Gull		Claud	le Ho	over
Hibali Hoo-H	*********	******	Ha	l Ski	nner
Hoo-H	00.M.	W. A	E. E	. McG	rew
Immig					
Jeanne	J		Harol	d Lit	trell
Molee.	*******	*********			
				hard l	
Owner					
PAF	********	Fr			
				Carrol	
Silver	Eagle	C.			
				J. WI	
Three	Misse	S		Denni	
Tid Bi			NI	ck De	Witt
Tid Bi	t	*******	Bill F	Slacki	edge
Unkno					
Unkno	wn		rike	Cieve	land

#### SOUTHWESTERN OREGON MOTOR BOAT ASSOCIATION

Coos Bay, Ore.

Cart	DammPresident
	920 Lombard St.
	North Bend, Ore.

Fritz	Davison	Secretary
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	Coquille,	Ore.

#### YAQUINA BAY YACHT CLUB

Newport, Oregon

J.	E.	Wrig	chtCommod	ore
Re	ber	t C.	Crawford Seey Tre	as.

Boat	Owner
Doris	J. R. Odell
	J. E. Wright
	Alfred Stanley
Leprechaun	Jim Foller
	Carl Staats
	Andy Holbrook
Northwind	Asel C. Eoff
	Robert C. Starr
	Bill Gribler
	W. S. Hunter, Jr.
	Robert C. Starr
Sea GrubLa	wrence E. Hofer
The Dons	Donald A. Young
The Thing	.R. C. Crawford

# **British Columbia Yacht Clubs**

#### BURBARD YACHT CLUB Stanley Park Vancouver, B. C.

S. R. Maddison	Commodore
K. Bramall	Secretary
Boat	Owner
Adarene	G. Horner
Agnes, R. L	F. E. Reed
Alern	
Allien	G. M. Philips
Alice Lynne	D. J. Wright
AlohaJ	. G. Williams
Alondra	E. J. Cook
Amanha	H. Proctor
Amigo	
Anita Joyce	
Arlyne	
Betnan BillC	
Betty-Lou	
Blithe Spirit	
Blue Boy	
Blue Iris	
Bob-Rob	
Cairdeas	
Cassandra	
Charita Dr	R. C. Caverly
Charita Dr	. C. B. Dawe
Chilon Clair De Lame	E T Ladren
Cresthaven	P F Dubent
Double I	

Dyne	J. C. Heelas
Faustina	Wm. Adamson
Flagan	W. P. Haggerty
Friendship	John Boyd
Geradon	J. R. Nesbitt
Graceine	J. P. Watts
Green Hornet	Don McKenzie
Haldicon	H. C. Becker
Harmony	H. C. Becker
Janra	.S. R. Maddison
Jaro Dr	L. F. Marshall
Jeanette	O. D. McBride
Klee Wyck	I. B. McKay
Lady Anne II	I. B. McKay R. H. Harris
Lady Bountiful.	E. I. Bird
Laura I	E. I. Bird K. Bramall W. E. Wright
Leisure	W. E. Wright
Lilley Dink	S. H. Lilley
Lorna May	C. D. Tweedale
Louigee	R. M. Robertson
Lucky VII	.W. E. Shannon
Malpeque	.J. C. Woodside
Mamo	C. W. Leggatt
Marellen	J. C. Woodside C. W. Leggatt R. H. Rankine
Maridaph	M. E. Howe
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Marnez	H. Lucas
Marni	H. Skelding
Mauluday	
Melampus	J. Vince
Mercury	J. Vince B. F. Dalgeish
Mersel	H. G. Selman
	J. W. McDonald
P. M. L. 3	E. Allan

Perrata	R. C. Ellert
Pladda	T. L. Johnston
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Quest	O. Cote
Rita	O. Cote
Pogrio	D W Duncan
Sally-Jo	J. W. Knight
Bal Nor II	N. E. Wildey
San Jolin	J. B. Lister
Sarreta II	L. R. Mason
Scamper	G. N. Russell
Sea Biscuit	M. R. Laidlaw
Sea Holm	R. B. Kipling
Gas Gamts	T E Woles
Sequin	A. R. Mark
Silver Spray	A. R. Mark D. R. Davis
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Star Trail	W. A. Gosse
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Underwing	D. Bartels
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Victor R	
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Wassenly II	W. A. Arnold
Waverly II	R. M. Ashby
White Iris	R. M. Ashby
Wilco	H. E. Willock
Windsor	V. C. Spink

# CAPITAL CITY YACHT

Moorings: Canoe Cove Victoria, B. C.

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		1210 Wharf Street
		Victoria, R. C.

Bont	Owner
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Ambassador IV	t. Broughton
Ambassador IV	H. Morgan
Atlast	J. A. Bostock
Awaywego Barbara Too	J. M. Porter
Barbara Too	M. Atkins
Bluefin II	R. A. Lipsey
Cameo	N. Findler
Calypso II	S. Roberts
	P Tyings
Capo	T. H. Kingscote
Cesleen	C. Mingscore
Christine II	.Dr C. M. Henry
Claimarloje	M. C. Watt
Clipper	A. H. Tyrell
Coleen	C. A. Holloway
Colondrina	C. A. Holloway E. J. McLaughlin O Corbett
Colwen G	O Corbett
Daisy	J. W. Brooks
Datopa	H. J. Sims
Deja	J. W. Brooks H. J. Sims J. H. McLain
Doreen	T T Hamilton
	O Foreles
Dulowna	
Dyne Edna Elaine	J. T. Hamilton O. Fowler F. H. Harrison
Edna Elaine	Jack D. Billiu
Eileen G	Jack D. Smith H. Gladwell D. J. Dangerfield M. Green Dr. H. B. Wood V. W. Griffin ij. W. C. Roberts R. L. Challoner Dr. T. W. Walker W. Whittingtam
Figit	D. J. Dangerfield
Halcyon II	
Hermeva	Dr. H. B. Wood
Hi-Seas	V. W. Griffin
IreneMa	i W C Roberts
Isabel L	P I. Challoner
Inner T I	or. T. W. Walker
	Whittingham
JerichoA.	w. whittingtam
J. H. & E	
Jo-MarH. C.	and H. F. Rogers
Josephine	B. W. Davies
Kalitan	H. R. Johnson
Kitgard	and H. F. Rogers B. W. Davies H. R. Johnson E. N. Liersch
Koala	
Koala II	H. Henderson N. P. Hocking T. H Peacock Dr. W. Sturdy
Ко-Ко	N. P. Hocking
Lady Domar	T H Peacock
Lady Joan II	Dr. W. Sturdy
	J. Selkirk
Lenore	DEIRIFK
Lillooet	
	C A LOWE
Looard	C A LOWE
Lucy D	C A LOWE
Looard Lucy D. Mandalay-B. Manuaki Mavon Meko. Merva	C A LOWE
Locard Lucy D. Mandalay-B. Manuaki Mavon Meko Merva Midnight Sun	C A LOWE
Locard Lucy D. Mandalay-B. Manuaki. Mavon. Meko. Merva. Midnight Sun. Moya.	C A LOWE
Locard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo.	C A LOWE
Loord Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo. Nirvana.	C A LOWE
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star.	C A LOWE
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya Navajo. Nirvana. North Star. Onoway Lt.	C A LOWE
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star.	C A LOWE
Loord Lucy D. Mandalay-B Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star. Onoway. Lt. Orwell.	C A LOWE
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko Merva Midnight Sun. Moya Navajo Nirvana North Star. Onoway Lt. Orwell Phoenix	C A LOWE
Looard Lucy D. Mandalay-B Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star. Onoway Lt. Orwell. Phoenix.	C A LOWE
Looard Lucy D Mandalay-B. Manuaki Mavon. Meko Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star. Onoway. Lt. Orwell. Phoenix. Phoenix. Reina Del Mar	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya Navajo. Nirvana. North Star. Onoway Lt. Orwell Phoenix. Phoenix.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie
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Looard Lucy D.  Mandalay-B.  Manuaki Mavon. Meko.  Merva.  Midnight Sun. Moya Nirvana.  North Star Onoway Lt. Orwell Phoenix. Phoenix. Phoenix Reina Del Mar Robyn Adair Robyn Adair Robyn Adair Romax Rosjon. Saga. Dr. Sea Haven.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halls R. W. Roof J. E. Seweli F. C. E. Ford C. N. Westwood H. C. Cross
Looard Lucy D Mandalay-B. Manuaki Mavon Meko Merva Midnight Sun Moya Navajo Nirvana North Star Onoway Lt. Orwell Phoenix Phoenix Phoenix Roina Del Mar Roberta Robyn Adair Rosjon Saga Dr. Sea Haven Sealeave	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Mias I. Deakin C. W. Kinlock H. S. Davie R. Halls R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling
Looard Lucy D Mandalay-B. Manuaki Mavon Meko Merva Midnight Sun Moya Navajo Nirvana North Star Onoway Lt. Orwell Phoenix Phoenix Phoenix Roina Del Mar Roberta Robyn Adair Rosjon Saga Dr. Sea Haven Sealeave	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Mias I. Deakin C. W. Kinlock H. S. Davie R. Halls R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko Merva. Midnight Sun. Moya Navajo. Nirvana. North Star. Onoway. Lt. Orweil. Phoenix. Phoenix. Reina Del Mar Roberta Robyn Adair. Romax. Rosjon. Saga. Dr. Sea Haven. Sealeave.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Mias I. Deakin C. W. Kinlock H. S. Davie R. Halls R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko. Merva. Midnight Sun. Moya. North Star. Onoway Lt. Orwell. Phoenix. Phoenix. Phoenix. Reina Del Mar Robyn Adair. Romax Rosjon. Saga. Dr. Saga. Dr. Sea Haven. Seaway Siesta.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halis R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C Cross G. S. Sparling E. H. Kolb P. Pitt W. N. Grice
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko Merva Midnight Sun Moya Navajo Nirvana North Star Onoway Lt Orwell Phoenix Phoenix Reina Del Mar Roberta Robyn Adair Robyn Adair Rosmax Rosjon Saga Dr. Sea Haven Sealeave Seaway Siesta Sparetime	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halis R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C Cross G. S. Sparling E. H. Kolb P. Pitt W. N. Grice
Looard Lucy D.  Mandalay-B.  Manuaki Mavon. Meko Merva Midnight Sun. Moya Navajo Nirvana North Star Onoway Lt Orweil Phoenix Phoenix Roberta Roberta Roberta Roberta Roberta Roberta Sealeave Sealeave Sealeave Seaway Siesta Sparetime Stranger II.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halis R. W. Roof J. E. Seweli F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling E. H. Kolb P. Pitt W. N. Grice E. Lewis E. Lewis
Looard Lucy D. Mandalay-B. Manuaki Mavon. Meko Merva. Midnight Sun. Moya. Navajo. Nirvana. North Star. Onoway. Lt. Orwell. Phoenix. Phoenix. Phoenix. Reina Del Mar Robyn Adair. Romax. Rosjon. Saga. Dr. Sea Haven. Sealeave. Seaway. Siesta. Sparetime. Stranger II	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halls R. W. Roof J. E. Sewell F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling E. H. Kolb P. Pitt W. N. Grice E. Lewis S. Moore
Looard Lucy D.  Mandalay-B.  Manuaki Mavon. Meko Merva Midnight Sun. Moya Navajo Nirvana North Star Onoway Lt Orwell Phoenix Phoenix Roberta Roberta Roberta Roberta Roberta Roberta Sealeave Sealeave Sealeave Seaway Siesta Sparetime Stranger II.	C. A. Lowe Henry Hoffar P. D. Bowes H. B. Olson L. Glazan A. Pednault Dr. V. B. Taylor L. W. Morril J. Ormond F. H. Francis R. V. Hocking F. B. McLeod S. K. Skillings Col. M. A. Kent Ken Oliver Miss I. Deakin C. W. Kinlock H. S. Davie R. Halis R. W. Roof J. E. Seweli F. C. E. Ford C. N. Westwood H. C. Cross G. S. Sparling E. H. Kolb P. Pitt W. N. Grice E. Lewis E. Lewis

The D & DT. Dickinson
Thetis L. MacKenzie
TotemJ. H. Palmer
Tryit
Tum TumC. P. Connorton and
Glen O. Smith
Tuya L. Mara
Twin Isles
Vagrant Pelland
Wasco D. Moor
Ysidro E. H. Henshall
Zandra Norman Hill

#### KELOWNA YACHT CLUB Water Street Kelowna, B. C.

D. I. Hayes......Commodore
C. H. Neale......Secy-Treas.
Water St., Kelowna

Hont	Owner
Anwolek	C. G. Renfrew
Awawero	W. J. Ribelin
Banahee	Bruce Paige
	B, Turri
	J. R. Hardy
	J. Treadgold
	G. Wilson
	C. M. Horner
	D L Hayes
	C. D. Newby
	E. A. Murchison
Mercury	L. A. C. Panton
	D. M. Black
	R. H. Johns
Ocean Breeze	C O Books
Rio II	
Silver Spray	D, G. Loane
Sylvia	S. V. Hubble
Tarpon	G. W. Sutherland
Taxi	J. Chambers
	H. T. Mitchell
	John Kitson
	M. Butler
Yellow Peril	A. J. Jones

## Foot of Balsam St. Vancouver, B. C.

Dr. Gordon Hodson....Commodore George Mason......Secretary

#### POWER BOATS

Boat	Owner
AletaM.	Wilson
CuprumA.	Quinn
Leilani IID.	Smith
Nola-Deen R.	Smith
VentureF.	Btow

#### SAIL BOATS

Astrea	.D. Shafer
Astrea	
Black HawkE	. Marsden
Bonnie	.L. Varty
Carina	.E. Young
Cherokee	.T. Varty
Corky	A. Cleaver
ComancheeI	
Crusader B.	Rouistone
Cygnet	B. Oliver
Dolphin	
Downbeat	Eric Cant
Drambule	
Dusky	R. Stevens
Duz	S. Davies
Duz	T. Varty
Flamingo	P. Leslie
Flyin' Dragon	W. Gyles

Flying Saucer	
Flving Scot	N. Park N. Sibson C. Williams
Flying Tiger	N. Sibson
Frisky Miss	C. Williams
Ghost	M. Hunt
Hideaway	G. Hodson
High Flite	W. Mackie
Hotspur	A. Tryce
Hotspur	G. Hodson W. Mackie A. Tryce D. Williamson
Iria	E. Wilkes
Jacita	J McDonald
Tollilou	A Maglow
Kelpie Queen	N. Clyne
Larmar	i. Miliman
Little Poacher	R. Kirkland
Little Toot	D. Sharer
Marina	E. Pennell
Menace	J. Gemmell
Mine Alone	R. Stevens
Pat	A. Sherlock
Puss Kat	
Rebel	R. Anders n
Red Witch	W Many
Sea Jet	R Della
Silbonette II	W. Linday T. Buckhan
Silver Heels	T Buckbam
Stout Fella	D. Messa
Sunbeam	K. Huntar
Tequilla	D. Moss K. Hunur R. Peters N. McLellan
Tic Tac	N. McLellan
Tom Boy	H. Barine
Totem	H. Barasa C. Helmer L. Murell
Triveda	I. Murall
Twin Sails	E. Bai
Warrior	J Gran
Wetazell	C. He
Whani Whani	C. Harris C. Harley W. Manson
Whiporwill	W Man
Wien	G. Marin
AA 190	

#### 

#### NANAIMO YACHT CLUB Nanaime, B. C.

Noci R. Thompson.....Commode Geo. F. Wilson......Secretary POWER BOATS

Boat Owner
Aldon Dr. A. W. Bowles
Alleen
Awgwan II R. H. Dunsmore
BetsyJ. Grassick
BikerStan Blackburn
Bonny Dundee C. Edgington
Comrade
Crest A. Rowledge
DawnJ. Stevens
Dawn IIE. Butcher
Dawn IV A. W. Kennedy
Diana VanDr. F. R. Van Gilder
DreamAl Harding
ForayJim Allan
Gale
Green SeasO. H. Paulson
IcarusW. E. Canavan
Jeran
JimbarN. Thompson

Jolly-Mac	Ed Dermott
Lady Ann	Geo. Tuddenham
	A. C. Whitehouse
	Chas. Lenhart
	A. H. Shotbolt
	A. M. Russell
	B. V. W. Isaacson
	H. D. Laird
	H. Schwarze
	C. W. Swanson
Quandry	8. M. Haunders
	R. F. Kaltenbach
	E. W. Ilott
	F. Foster
Shangrila	A. Bell
Sheju	A. McAllister
Tang	Geo. Kelly
Texada Queen.	G. Dougan
Thella	A. Craig
Waiata	R. Alexander
Wenlyn	W. Low
Whirlaway	W. F. Mathews
	W. W. Nash
	A. R. Glen

#### SAIL BOATS

Blue Heron Dr	. C. C. Browne
Eldorado	B. R. Abrams
Fury	
Gypsy Lass	
Mee Too	
Nifty	
Southern Cross	
Thalassa	
TyphoonZodiac	
Zodiac	A. B. Cieveland

#### OCEAN FALLS YACHT CLUB

Ocean Falls, B. C.
Jack Cochrane ....... Commodore

D. W. MacDonald	Secretary
Boat	Owner
AhtL	A. Cadorin
Arlene T	McCormic
At Last	A. Robinson
Beach Comber	D. Meldrum
Beradeld	W. Ahola
Beradeld	N. Lee
Blue Goose	J. Sutton
Bonnie Ann	E. Colton
Buccaneer	
Buddy	Orin Hubert
Carmona	M. Mohyla
Carmona Charmer Discovery J.	S. Young
DiscoveryJ.	Wainwright
Dolphin	C. Dennis
Eight Ball	E. Barclay
Elmena	
El Ruth	T. Mullins
Fairy MaidFay Low	J. Kilgour
Fay Low	B. Seidleman
Gunhilde	G. Harmon
Gwen Dee	Geo. Lee
Ivie	O. Weber
Jacqueline	N. Davis
Judy	.G. Anderson
Kathy	N. Danshin
Lady Byron	J. Humphries
Lady Eileen	B. Clozza
Lagger	J. Gregaon
Liel Rae	Bud Hutton
Lorelle	J. Cochrane
Lorna Maisy D. W	R. Green
Malsy D. W	. MacDonald
Marellen Marge	w. Carlyle
Marge	i. H. Pushie
Mariance	W. Holloway
Michele 8	D. Dumesnil

Nora 8
F. Scott
Phyliss CP. Chatt
Rex
Sea Lark W. Donald
Bea Wolf
Silver Wings
Sophia W
Starlight O. D. McLeod
TempestI. Shorter and
R. Shorter
UrsaV. Benedit
Venture E. Jobes
Victory E. Buse
VoyageurA. Morrison,
A. Williamson and
H. Deane-Freeman

#### PRINCE RUPERT ROWING AND YACHTING CLUB

Prince Rupert, B. C.

Dr. L. M. Greene.....Commodore Dr. R. G. Large.....Secy.-Treas. Mailing Address: P. O. Box 314 Prince Rupert, B. C.

Boat	Owner
Aledor	Dr. L. W. Kergin
	A. P. Crawley
	O. Nobles
Brian 8	A. C. Stegavig
Doremur	G. Daniels
	Dr. J. P. Cade
Elizabeth M.	Columbia Cellulose
	A. W. McBroom
	Dr. W. S. Kergin
Harla	
	Columbia Cellulose
Marjorie	J. S. Wilson
Nancy	Geo. Hill
Northern Cr	Diocese of Caledonia
	Game Department
	G. Anderson
	Dr. L. M. Greene
	Dr. A. W. Large
Olaurack	R. McCarthy
Topolohamae	C. F. Hallan
Valor	Dr. R. G. Large
1 8108	It. U. Large

#### ROYAL CANADIAN NAVY YACHT CLUB

H.M.C.S. Naden Esquimalt, B. C.

	The College of the Co
Boat	Owner
BabeLt. Co	r. J. D. McCormick
Blue Goose	Cdr. Jim Davis
	Lt. H. Moist
Nova Lt.	Cdr. P. H. Sinclair
PalPet	ty Ofer. J. K. Luke
PromiseChi	aplain G. L. Gillard
Red Rose	Lt. Cdr. Chadwick
Scarlet Runn	erChief G. H.
	Balcomb
8ic 'Em	(Ordnance)
	Chief N. E. Bryon
SimoneCom	modore G. R. Miles
White Swan	Commodore Lea
	Gillard
Xtavay	S./Lt. R. Leckie

#### ROYAL VANCOUVER YACHT CLUB 2811 Point Grey Road

Vancouver, B. C.
Capt. B. L. Johnson Commodore
R. J. Bicknet Secretary

#### POWER BOATS

POWER BOA	TS
Boat	Owner
	C. Storch
AcrasiaJ. &	C. Storch A. Bennett
Aleta Mo	rris Wilson
AljoJ.	G. Chutter
Aloha	J. M. Kerr
AquajoyW.	M. Bennett
Arab T. H.	Coverinton
ArietaT	. W. Ayres
Bee BeeAllan l	M. McGavin
Bee Gee II	R. Nelson
Bonnie Pot	r W Godd
Carousel F	D. Welch
Celaeno	G Sweet
Chinthe Mrs. M.	McDonald
Cito R. H	R. Young
Cleodoxa	B. Arundel
Clipper I	. A. Cruise
CompaneroT.	P. Barnett
Cora May Ernes	t F. Riddle
CorsairW	. K. Sulley
CoryelsJ. V.	W. Phillips
Cygnus IIJ.	L. Helliwell
DanaeDr.	H. Mitchell
Deidre II E. S.	Glaspie and
E.	S. Glaspie
DorisarL. C	deMerrall
EarlmarE.	B. Finning
Effort L	. B. White
Piralem E	D. Dueck
Par West Dr	M Johnson
Fifer	E Lowe
Fifth Pusilier G. R.	Nightingale
Piona II Dr. J. 1	B. Hallowes
Freen Enterprise W	T. Money
FusilierF. S.	Clendening
GevaG.	E. Morrison
Geva IIG.	E. Morrison
Glennifer	K. Mair
Happy DaysL	R. Grant
Hi-Time	G. Chisnoim
Hope Point	A. Moody
Town des	T Delfal
Tacamac	R Atking
Jervia II E W	7. Sampson
Io-Leen	J. Jenkins
Kennett T.	H. Wright
Lady Isa T. H.	Pakenham
Lamalchi	. R. Ginn
LeewardDr. R. E.	McKechnie
Leola V	W. Vivian
L. & H	Darnbrough
Latona A	O. H. Bell
Little Jean	H. Corkum
MaiaA.	G. Smith
Mamita	H. Rendell
Margaree F.	B. Bmith
MarquittaW.	J. Johnson
Mar O Mia	J. J. Cluit
Meanuer	A Stewart
Happy Days L. Happy Days L. Hi-Time J. Hope Point J. Hope Point J. Hulakal Dr. J. Invader J. Jo-Leen L. Jo-Leen T. Kennett T. Lady Isa T. H. Lamalchi Leeward Dr. R. E. Leola V L. & H. S. Latona A. Little Jean C. Maila A. Margaree F. Marguitta W. Mar O Mla Meander Meleti M. Minista J. Ministik Mo'A R. Cave, Bi Nelvibil Nisa J. Norda Patilo. Potalo of the West J. Prids of the West J.	A. Beller
Ministik	R. M. Pve
Mo'A. R. Cave. Br	rowne Cave
Nelvibili	R. S. Leith
Nip n' TuckJ. R	T. Grant
Nirvana IIE.	A Towns
NodlewJ	. B. Smith
Norda	D. Mitchell
Patilo	G. Murphy
Peanut F	. M. Shaw
Pride of the West I	A. Lewis

PrivateerJ. Wilkinson	m
Pursuit IIK. G. McCandle	88
Reverie L. O. Lit Rhinegold C. C. Ferr	d
Rhinegold C. C. Ferr	ie
Pinnie Boint W G Dolmage	
J. D. Maitlar	d
J. D. Maitlar Rockabye J. H. Mai Romac R. M. McLuck Saga P. Jeno	er
Romac R. M. McLuck	ie
SagaP. Jenn	er
Salt Mist	B.T.
Sea OtterJ. G. Gou. Shal-O-MarJ. A. Longle	id
Shal-O-MarJ. A. Longle	17
Shearwater Frank Res	M
Show Girl J. Hov	ve.
Sinbad I A .S. Hudso	m
BiskinR. Cariri	10
Stranger	18
Siskin. R. Carfri Stranger. F. E. Lew Streamer. Dr. R. E. McKechn Sulhamer. J. W. C. Duc Tally-Ho. G. E. D'Arr.	le
Tally Ho	380
Tampest D Crom	ia.
Tempest D. Crom Tempest II G. W. Swer Tobar J. G. Whi	
Tohar I C Whi	
Trasnagh IIChas. 8 Fre	100
TruantDr. J. Scott Baxte	
Tyee B. Atkir	18
Ubique C. S. Thick	te
Victory 4E. D. Stor	10
Voyageur III Charles N. Prett	W
WalithyC. Wallac	ce
Wayward Roy	
S. J. Hatchett, J	r.
Whi-Ski 8. P. Crom	ie
White Cap	m
Wyrill R. H. R. Your	1g
Yellow JacketA. Wa ZephyrD. C. Maclus	y
ZephyrD. C. Machin	re:

Pegasus	J. C. Myers
	J. C. Myers ( J. H. Well P. Lesli
Polaris	P. Lest
RavenJ.	Dobson & Bob Littl
Rebel	Dr. R. Anderso
Restless	D. C. B. Duf
Reverie	Charles Bayn C. F. Butche K. B. Woodwar
Riatia	C. F. Butche
Rowena	K. B. Woodwar
Sandra	L. Daniel
Saucy Sue	G. B. Reynold
Shang-ri-in	W. Wall
Spectre	W. Wals K. Parson H. A. Jone
Spirit	
spittire	A. H. Leite J. H. Punti
Sura Mena	I H Punti
Sure Rope	7 Vana MaDonal
Tomara T	J. Vans McDonal homas N. Anderso
Tomara	Thomas W. Bair
Tornado	I. Wilso
Tornado	I. Wilso
Tornado	Dr. Cecil Helme
Totem	Dr. Cecil Helme
Totem	Dr. Cecii Helme E. G. Tindi John Roger
Totem	Dr. Cecii Helme E. G. Tindi John Roger
Totem	Dr. Cecii Helme E. G. Tindi John Roger
Totem	Dr. Cecii Helme E. G. Tindi John Roger
Tornado	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg
Tornado	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg
Tornado	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg
Tornado	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg
Tornado	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg
Tornado. Totem	L. Wilso Dr. Cecil Helme L. E. G. Tindi John Roger John Gree D. S. Hoesi S. P. Judg L. Ortengre & R. Boulte B. R. Tuppe R. I. McChur E. J. Treloa
Tornado. Totem	L. Wilso Dr. Cecil Helme L. E. G. Tindi John Roger John Gree D. S. Hoesi S. P. Judg L. Ortengre & R. Boulte B. R. Tuppe R. I. McChur E. J. Treloa
Tornado. Totem	Dr. Cecii Helme E. G. Tindi John Roger Miss Diane Bancrof John Gree D. S. Hossi B. P. Judg

...P. R. Burr

Oho.

#### SAIL BOATS

Allea I	7 M	Clibuon
Alisa II	32 12	Dimpet
Alisa II		Tales
Amberjack		s. Poley
Anywhere	С. н.	Elliott
Ariel	***********	L. Kyle
Ariki		c. Perry
Atlanta	W. 1	L. Hunt
Balandra	Collin	Hanney
Ragracoute	T W	Channell
Dire Mist	0.0	Czebbin
Blue Mist		Bandda
Carita II		Roedde
C. Daze	D. M. M	сровии
Clear Sky	Phil & Bi	d Miller
Cresset	D. 1	P. Urry
Cresset Day Gem Duende	J. B	C. Bloan
Duende	Miss O.	J. Biller
Ealasaid	K. M	icKenzie
Flomar	Dr 1	H Ross
Physive	WR	Morrow
English T	W C M	Iddieton
Essence	D H C	Prock
Ealasaid Elomar Elusive Errant I Escapee Fantasie Free Lance	P. H. G	Brock
Fantasie	J. WI	mamson
Free Lance	.E. R. 81	learman
Ganessa Gin Fizz A. D. Gometra	A. W.	Nyblom
Gin Fizz.A. D.	& C. A.	Manson
Gometra	.J. G. O	rtengren
Half Moon	L G. D.	. Frager
HawkJ	R. D	elaplace
Hawk	C Me	Pherson
Here & There	C F	Aukew
Here & There	D C	Satulton
ridaway		Cree
Hi-Ho Hop A Long Hymac Dr. Inez		Cran
Hop A Long	Jack	V. Long
HymacDr.	R. P. Mc	Cattrey
Inez	.D. Barr	aclough
Ishbell	S. A	. Smith
Jimbo Jack	B. K.	Burnett
Lady GayLizbeth IL	J. H	amilton
Lizheth II	R. K	Baker
Maratea Dr.	A. R.	Anthony
Mischief	0 0	higholm
Miss Too	7 0	Culter
Maratea Dr. Mischief Miss Lee Murrelet Night Mare R.	The State of	Cuiter
Murrelet	Jr. W. J	. Curry
Night MareR.	White &	W. D.
	H	SPOTS VA

#### ROYAL VICTORIA YACHT CLUB Cadboro Bay Victoria, B. C.

H. A. Wallace	Commodore
Maj. P. Steel	See'y-Manager
Boat	Owner R. Lipsey T. H. Coverdale
Alcona	R. Lipsey
Argus	T. H. Coverdale
Ariel	E. DowellP. Townshend
Aquilla	P. Townshend
Avalon	A. Wilson
Ayak	R. Moore
Ballerina	B. W. Nickells
BendoraDr.	B. W. Nickells
Birdwill	R. E. Coleman
Bonaventure Buccaneer III Buccaneer Canim T	N. P. Blandy
Buccaneer III	H. A. Wallace
Buccaneer	J. A. Dunn
CanimT	. A. G. Beeching
Chack ChackC	apt. A. C. Davy
Cherie	Dr. R. J. Wride
Clipper	G. W. Nicholi
Clipper Cutty Sark Cygnus Dabchick Dawn	H. Peake
Cygnus	J. Moran
Dabenick	TT TT MULE
Dawn	H. W. Miller
Divis	W Wilson
Doramar Duchess II Duna I Dunrobin Ecume	I Burridge
Duchess II	P Fermison
Duna	Dr. W. H. Moore
Dunrobin	N. Swainson
Ecume	H. E. Bailey
Eileen G	H. W. Gladwell
Emoh Group Car	of A R Lavard
Ethel M. II	E. Todd
Falcon	W. E. Speed
Ethel M. II Falcon Falcon Marina Fiona II	C. L. Harrison
Fiona II	Dr. B. Hallowes
Four Winds Dr.	H. H. Jeune
GalateaDr.	John A. Stewart
Girl Pat	Brig B Reford

Grant L	E. H. Livingston J. M. Green R. Fraser E. D. Liersch W. H. Molson H. B. Murray J. H. Gann
similar ar	J. M. Green
Hardtak II	F. D. Lierach
Hel-Dot	W. H. Molson
Hornet Idle Moment	H. B. Murray
Idle Moment	J. H. Gann
IDCZ	
Ingly	C Mackinson
Ivanhoe	A. J. Jukes
Janith	A. J. Jukes P. Fern G. Edwards G. C. Kenning B. W. Davies J. Andrews J. Prentites
Jo-MarDr Josephine	G. Edwards
Jo-MarDr	B. W. Davies
Juno	J. Andrews
JunoKakawis	
Kathleen	R. C. Ross
Kismet	E N Lierah
Klatawa	W. K. McCarter
Kismet. Kit-Gard. Klatawa. Lady Domar Lady Helen	T. H. Peacock
Lady Helen	J. R. MacMillan
Little Empress.	A. D. Crosse
Louen	K. Harvey
Lucania	B. White w
Lynjon	B. White
Mac III.  Mandalay B.  Manukai.  Manyana.	H. W. Gladwall H. B. Olasin R. F. Castle R. S. Olasin A. Wright
Manukai	R. F. Castle
Manyana	R. 8. Olem
Manukai Manyana Margaret D Maudrine May D MedosaCapi Meko	A. Wright
May D	E P A De
Medosa Capt	R. L. Jerman
Meko	Dr. V. B. Taylor
MenitaCa	pt. W. B. Holman
MedosaCapi Meko MenitaCa Mintaka Mirrabooka	R & Dungan
Misty Glow	D. J. Laws a
Misty Glow Mosca	L. A. Gense
Move	F. W. Francis
Murrelet	G. H. May
Nesika A. Loci	G. H. May
Nirvana	F. B. McLand
Nirvana	F. B. McLand
Nirvana	F. B. McLand
Nesika A Loc Nirvana Nomad Nomana Northern Light	M. Bretton F. B. McLed A. M. Melan W. G. McIntoh H. L. Sanger F. E. C. Hoodkes
Nesika A Loc Nirvana Nomad Nomana Northern Light	M. Bretton F. B. McLed A. M. Melan W. G. McIntoh H. L. Sanger F. E. C. Hoodkes
Nesika A Loc Nirvana Nomad Nomana Northern Light	M. Bretton F. B. McLed A. M. Melan W. G. McIntoh H. L. Sanger F. E. C. Hoodkes
Nestra A. Loc. Nirvana. Nomana. Nomana. Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja. Pancho.	M. Bretton F. B. McLed A. M. Melan W. G. McIntoh H. L. Sanger F. E. C. Hoodkes
Nestra A. Loc. Nirvana. Nomana. Nomana. Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja. Pancho. Patricia.	F. B. McLad A. M. Melin W. G. McIntoh H. L. Sangar E. C. Hoodles D. Ansay C. Wood A. Merstin N. J. Waller R. N. Smith
Nesira A. Loc. Nirvana Nomana Nomana Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja Pancho. Patricia Pelican Phyllis F. Mai	F. B. McLed A. M. Melin W. G. Melinton H. L. Sangar, E. C. Hoodles D. Ansiy C. Wood A. Mereba N. J. Waller R. N. Smuh G. Jeune J. E. Matthew
Nesira A. Loc. Nirvana Nomana Nomana Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja Pancho. Patricia Pelican Phyllis F. Mai	F. B. McLed A. M. Melin W. G. Melinton H. L. Sangar, E. C. Hoodles D. Ansiy C. Wood A. Mereba N. J. Waller R. N. Smuh G. Jeune J. E. Matthew
Nesina A. Loc. Nirvana. Nomad. Nomana. Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja. Pancho. Patricia. Pelican. Phyllis F. Maj. Pirate. Redskin.	F. B. McLed A. M. Melin W. G. Melinton H. L. Sangar, E. C. Hoodles D. Ansiy C. Wood A. Mereba N. J. Waller R. N. Smuh G. Jeune J. E. Matthew
Nesira. A. Loc. Nirvana. Nomad. Nomana. Northern Light. One Seaguil. Di Onoway. P.D.Q. Pamannja. Pancho. Patricia. Pelican. Pelican. Prirate. Redskin. Richmond II.	F. B. McLed A. M. Melon W. G. McIntoh H. L. Sangar, E. C. Hoodies D. Answer C. Wood A. Merson N. J. Waller R. N. Smith G. Jeune J. E. Matthews D. G. Robe is A. W. E. II. F. J. Hold in W. T. McControl Control Contro
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Nesika A. Loc. Nirvana. Nomada. Nomana. Northern Light. One SeagullDr. Onoway. P.D.Q. Pamannja. Pancho. Patricia. Pelican. Phyllis F. Maj. Pirate. Redskin. Richmond II. Ripples. Ris-K. Rogue. RosawillDr. Roscrana. Dr. Saga. Dr. Saga. Dr. SalishanDr.	F. B. McLod A. M. Mel n. W. G. McInto h. H. L. Sangar. E. C. Hoodiss. D. Ansey. C. Wood. A. Merston N. J. Waller R. N. Smuh. G. Jeune J. E. Matthe s. D. G. Robe is. A. W. Ell F. J. Hold n. W. Thoman J. Morn B. B. Christop
Nesika A. Loc. Nirvana. Nomada. Nomana. Northern Light. One SeagullDr Onoway. P.D.Q. Pamannja. Pancho. Patricia. Pelican. Phyllis F. Maj. Pirate. Redskin. Richmond II. Richmond II. Ripples. Ris-K. Rogue. B. RosawillDr Roscrana. Dr. Saga. Dr. Saga. Saga. Dr. SalishanDr. Seafarer. Shangrila.	F. B. McLod A. M. Mel n. W. G. McInto h. H. L. Sangar. E. C. Hooding D. Anney C. Wood A. Merston N. J. Wall r. R. N. Smith G. Jeune J. E. Matthews. D. G. Robe is A. W. 2 il F. J. Hold in W. Thoman J. Morn D. B. Christop r. W. S. Simps n. G. G. Share & W. N. Westwood J. Featherstone V. N. Westwood G. W. C. Bissett H. L. Carroll W. Walsh
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	J. Gooderham
	J. S. Ogilvie
Ifmoty.	W. F. Burton
Vagrant	L. L. Pelland
	A. & J. Nelson
	A. Evans
	H. Scholes
	John A. Meade
	M. Lifton
	I. Williams
	K. S. Crabtree
Zepnyr I	J. Woodward
Zennyr II	J. WOODWARD

#### John Coleman Greg Collier June R. Smith Basil Crawford Alie Chisholm Newinton ... Nor. Osprey Pal.... Pepper. Serena Vic Fox C. Waterton Jim Chapman P. Cherry Shiftless Sinbad Sinbad

Snow Goose Star	n Huntingford
Tally-Ho	G. E. D'Arcy
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WentocumBa	rbara & Dave
Hosse	& Buss Elsie
Westerley1	Dick Horspool
Westwind	Paul Zuest
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	Elizabeth Foster
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	B. Macdonald
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	J. Long
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	Less Holloway &
	Jimmie Sinclair
Lady Doris	
Linne	H. L. McCulloch
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Loradel	Fred Mallett &
Loriduti	Bob McKiarmaid
Luby Balla	Ted Fulcher
	Hugo Ray
	D. Cove
	G. Ingham

	Y	ACHT CLUB
	Ju	neau, Alaska
Robert	W.	CowlingCommodore
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Jazz				
Jo-Don				
Messinger				
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Nylie		Keith	W	ildes
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	Dill Wood

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Clipper	Jim Church
Diajac	Perry Yates
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Dorothy W II	Charlie White
Endeavor	Amos Burg
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	S. Oaksmith Jr.
	erry E. Hilleary
and W	ally Christiansen
Gallivanter	M. J. Bucey &
	F. Larsen
Goose	W. E. Petersen
Go-PlacesDr.	W. E. Petersen
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Plumbers Friend	Jack Nelson
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(One-Design)

#### Blanchard Junior Knockabout

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#### Blanchard Senior Knockabout

Cruising-racing sloop, 26'6"x21'x6'6"x 3'6". Largest one-design cruising-racing class in the Pacific Northwest. Designer: N. J. Blanchard (Blanchard Boat Company, Inc., Seattle, Wash.). Blanchard Senior Knockabout Association: Mrs. Violet Banner, Secy., 5722 W. Winthrop, Seattle.

#### Blanchard "33"

One design class axiliary keel sloop. 33'x8'9"x5'. Sail area, 478 sq. ft. Designed by William Garden. Built by Blanchard Boat Co., Inc., Seattle.

#### California 32 Class

Auxiliary keel sloop, 46'x32'x10'9"x 6'9". Sail area, 857 sq. ft. Designed by Nicholas S. Potter.

# Columbia River One-Design (CROD)

28' auxiliary sloop. Designed by Joseph M. Dyer, Astoria, Ore. Fleet largely Portland-owned.

#### **Evergreen Class**

Sloop, 36'x7'4"x5'. Sail area, 472 sq. ft. Evergreen Class Executive Committee, Robert T. Lamson, 6708 Fox Ave., Seattle, Wash. Class sponsored by the Corinthian Yacht Club. Seattle.

#### Flattie Class

Centerboard sloop, 18' length by 5'3" beam. Designed by L. E. Geary. Insignia—a red flattie. International Flattie Yacht Racing Association, C. Frederick Harley, 11111 Aurora Ave., Seattle, Wash., secretary. Plans and registrations, \$10.

#### **International 14 Class**

Centerboard sloop, 14 feet overall length, 56" beam. Measured sail area, 125 sq. ft. Dick Fenton, pres., International 14-Foot Sailing Assn., 417 South Hill St., Los Angeles 13, Calif. Designed by Uffa Fox.

#### International 110 Class

Keel sloop, 24'x4'3"x2'9". Sail area, 110 sq. ft. Insignia—number "110." Designed by C. Raymond Hunt.

#### Kettenburg—38

Auxiliary keel sloop, 38'x25'10"x8'x5' 2". Sail area 536 sq. ft. Insignia— "K-38." Designed by George Kettenburg.

#### **Lightning Class**

Centerboard sloop, 19'x15'10"x6'6". Sail area, 177 sq. ft. Lightning Class Association, Bank of South Haven Bldg., South Haven, Mich. Designed by Sparkman & Stephens. Carl J. Ackerman, western v-p., 4011 Sequoia St., San Diego 9, Calif.

#### **Mercury Class**

Keel sloop, 18'x13'x5'4"x3'1". Sail area, 156 sq. ft. Designed by Ernest Nunes.

#### Pacific Cruising Class (PCC)

Auxiliary keel sloop, 46'x9'6"x6'6". Sail area, 740 sq. ft. Designed by George Kettenburg.

#### Penguin Class

Centerboard cat, 11'5"x4'8". Sail area, 72 sg. ft. Insignia—a black penguin. Designed by Philip L. Rhodes. Plans: George T. Ruby, treas., Penguin Class Dinghy Association, 1146 Heather Square, Pasadena, Calif. R. D. Israel, president, 3204 Ingelow St., San Diego 6, Calif.

#### Rhodes 33

Keel sloop, 33'8"x22'4"x6'10"x5'. Sail area, 386 sq. ft. Designed by P. L. Rhodes.

#### Snipe Class

Centerboard sloop, 15'5"x5'x3'. Sail area, 116 sq. ft. Designed by W. F. Crosby. Snipe Class International Racing Assn., 522 Stellar Ave., Pelham, N. Y.

#### Star Class

Keel sloop, 22'8½"x15'6"x5'8"x3'4". Sail area, 281 sq. ft. Plans: International Star Class Yacht Racing Assn., 51 East 42nd St., New York, N.Y. Designed by Francis Sweisguth (office of William Gardner).

# TROUBLE-SHOOTING GUIDE

### FOR MARINE ENGINES

THIS SECTION is intended to serve as a guide to the boat owner when minor engine troubles develop during a cruise. Major mechanical repairs or overhauls requiring the facilities of a repair shop are not covered, although we will try to tell you how to recognize some of them.

In any search for engine troubles they should be traced systematically and only one adjustment made at one time.

There is nothing magical about the operation of a marine engine. If no parts are broken, if it is correctly assembled and timed, if it has fuel and ignition and can be cranked, the engine must run.

Should the engine refuse to start, don't run the battery down by cranking the engine. Think the situation over and find out why it doesn't start. Remedy the situation if possible and then attempt to start the engine.

The following causes, effects, and remedies will, we hope, assist you to have more enjoyable cruising by making minor repairs afloat possible.

#### IF CRANKING MOTOR WILL NOT OPERATE

Discharged or low battery:

Recommended test for battery is to check with a hydrometer or voltmeter. If these are not available, in emergency, a quick check for battery condition is to touch a pair of pliers quickly across the terminals. A good fat spark will indicate a live battery.

CAUTION: Before working around the battery or ignition circuits, the engine compartment should first be thoroughly aired out, and a check made for gasoline fumes, before breaking any connections which might result in an exposed spark.

#### Loose or corroded battery terminals:

Check cable connections at the terminal posts. Don't just look: break the connection, clean and reclamp.

#### Defective starter switch:

First inspect the connections. Try the emergency button under screw cover at end of relay switch on cranking motor. In an emergency, test push button by shorting across it with a pair of pliers,

first taking proper precautions against danger of fire.

Bendix pinion of cranking motor jammed:

Reach under flywheel and see if the starting pinion is free. If pinion is jammed against flywheel, it may be freed by loosening up the bolts which hold cranking motor to flywheel housing.

#### Defective cranking motor:

Inspect commutator and brushes. Engine may be "frozen":

Crank engine by hand, to make sure it is free.

#### CRANKING MOTOR REVOLVES BUT ENGINE DOES NOT

Weak battery:

Not sufficient power to turn engine a normal speed. When this condition exist the cranking motor will have a characteristic hum.

#### Acid-eaten cable:

Insufficient current getting through Give particular attention to ground connection on battery.

# Broken Bendix drive, or gum on Bendix spiral:

Remove the cranking motor and look for broken spring. If Bendix pinion does not move freely on spiral, wash pinion and spiral in mineral spirits and lubricate sparingly with light engine oil, S.A.E. 10.

#### Stripped gear on flywheel:

This is extremely rare.

As an emergency measure if only a few teeth are gone from flywheel gear rotate engine by hand until stripped portion is beyond Bendix gear. The starter can then turn the engine over almost one revolution before meeting stripped part and will in some cases coast over and re-engage good teeth.

#### CRANKING MOTOR OPERATES BUT ENGINE WILL NOT START

Improper carburetion:

Out of fuel?

Is gasoline reaching fuel pump? See if sediment bowl on fuel pump is filled with gasoline. If not, and there is fuel in

the tank, shut-off cock may be closed or the line may be plugged. Try the hand primer. Disconnect line at fuel pump and blow through line. Look for dents in tubing, and air leaks in fuel pump gaskets or in fuel line connections. Make sure that vent to gasoline tank is open.

Is fuel reaching the carburetor? Remove sediment bowl from fuel pump and see if screen is clean. Then disconnect line from fuel pump to carburetor, and see if gasoline flows freely. Look for water in fuel. Water will show as large drops which do not mix with fuel. If found, drain sediment bowl and carburetor.

Is fuel reaching the cylinders? Remove spark plugs and see if they are moist. If there is no trace of gasoline in the cylinders, carburetor may be out of adjustment, float level too low, or the jets may be clogged with dirt and gum.

Is choke closing properly? On dual carburetor models, if linkage permits one choke to remain partly open, both chokes will be out of action, causing hard starting.

Engine flooded? If the spark plugs are wet, this indicates flooding, caused by using the choke too long. Open throttle wide, set choke in non-choking position, turn switch on and crank engine a few times.

Air leaks at intake manifold?

Poor grade, old, or stale fuel in combination with cold weather causes hard starting. In very cold weather, heating the oil and warming the spark plugs will help.

If engine was previously running with the present carburetor adjustment, do not change it unless there is evidence of the needle valve vibrating out of adjustment.

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#### Electrical difficulties:

Possible trouble in the primary circuit may arise from corroded, dirty or loose connections; weak, leaky or grounded condenser; distributor points pitted or fused; distributor points set to wrong gap, or loose; breaker arm sticking because of weak or broken spring or because of tight hinge bushing.

When in doubt as to electrical troubles, a good, simple procedure is to replace the coil, condenser, and points and possibly the spark plugs and distributor rotor and cap. Then have the old ones tested at the next stop where facilities

are available.

This, of course, requires an engine first aid kit, which should be carried on every boat, carefully packed in a dry box, which should consist of the following all new parts and as many of each as there are on the engine or engines:

Coil Spark plugs Condenser Point file or emery stone Points 3/32-inch round file Distributor rotor and cap

CAUTION: To avoid mixing plug wires, tape or mark all wires before removal. If they are mixed up, refer to the paragraph on wrong timing.

Trouble in the secondary circuit can be caused by corroded, dirty, or loose connections. Check high-tension wire from coil to distributor and all wires in distributor cap. Other causes: moisture or carbon on spark plug porcelains; cracked insulation, leaks and shorts; cracked distributor cap; carbon contact inside distributor cap broken or missing; rotor contact spring broken; ignition coil weak; wrong type of spark plug; improper gap on spark plugs; fouled or cracked spark plugs; distributor wired to wrong plugs.

A wet distributor cap and wires can be dried off by pouring a small amount of carbon tetrachloride over them and allowing it to evaporate.

Poor compression:

A quick test for compression is to remove a spark plug and place your thumb over the hole, then crank the engine. A more accurate method is to use a compression gauge. Do not expect all cylinders to show the same compression pressure, but a decided difference will indicate improperly seating valves, worn rings, worn cylinder, or leaky gasket. After taking an initial reading, seal the piston with a teaspoon of engine oil poured through spark plug hole, and take a second reading. If pressure does not increase, this will indicate that improperly seating valves are at fault.

Poor compression may be caused by a loose or warped cylinder head; spark plugs loose in head; damaged cylinder head gasket; poorly seating valves; broken or weak valve springs; valves holding open due to insufficient tappet clearance; valves sticking open due to warped stems or carbon and gum on stems or in stem guides; badly worn, broken, or stuck piston rings; cylinder scored or worn excessively.

#### Wrong timing:

Remove any spark plug, put your thumb over the spark plug hole and test for compression stroke, cranking the engine over by hand. Then, probing with a stiff wire, set piston on top dead center of the compression stroke. At this position, the breaker points in distributor should be just starting to open.

Firing order on most 6 cylinder engines is 1-5-3-6-2-4. Six cylinder engines known as "opposite rotation" usually have a firing order of 1-4-2-6-3-5. Opposite rotation engines are usually the porside engine in a twin screw boat. Most engines have the firing order stamped on a metal plate attached to the engine.

#### **OVERHEATING**

Overheating is caused by worn water pump; obstruction in the oil cooler; obstruction in water intake scoop; scale or sand in water jackets; collapse of intake water hose under load; water by-pass valve off correct setting; low oil level in crankcase; defective thermostat.

#### LACK OF POWER

Faulty compression. Improper timing. Poor carburetion.

Restriction in air supply to carburetor caused by dirt in flame arrester screen or choke valve not completely opening.

Throttle control linked up so that throttle is not fully opening.

Dirt or water in sediment bowl of fuel

Dirt or water in fuel lines or carburetor jets.

Air leak in fuel pump or fuel line.

Air leak in manifold gasket. High engine temperature, caused by worn water pump or clogged water jack-

Vent of gasoline tank not open.

Pre-ignition, caused by carbon deposits, by wrong plugs, or warped valve head

Engine and propeller shaft misalignment.

Insufficient air getting into engine compartment.

#### ROUGH, UNEVEN IDLING

Improper adjustment of idling screw or carburetor; float level too high or too low; idling jet air passage clogged.

Air leaks in intake manifold or carburetor; loose manifold nuts, damaged gasket at manifold; warped manifold.

Improper ignition.

Weak ignition coil.

Spark plug difficulties (gap too close). Uneven compression.

Water leak in cylinder head, block, or manifold.

#### MISSING AT HIGH SPEED

Spark plug troubles.

Broken insulation on high tension wires.

Weak breaker-point spring.

Fuel obstruction, indicated by back-

Weak valve springs.

Improper tappet clearance.

#### MISSING AT ALL SPEEDS

Blown head gasket between cylinders. Sticking valves, broken valve spring. Fouled spark plugs; broken insulation. Leaky high-tension wiring. Pitted or fused breaker points. Incorrect breaker-point gap. Improper valve tappet clearance. Punctured condenser. Gasket leak at intake manifold. Carburetor out of adjustment.

#### SPARK KNOCK AND FUEL KNOCK

Pre-ignition is caused by an incandescent particle of carbon or metal in the combustion chamber, which fires the mixture prematurely, while the piston is still rising. Detonation is caused by fuel of wrong octane rating, which burns too rapidly, throwing a sudden and abnormally high pressure against the piston. The two have a similar sound, a metallic ringing knock which is often described as a "ping." This is usually heard when the engine is laboring, accelerating rapidly, or overheated.

Causes of this condition are:

Carbon deposits in combustion chamher.

Ignition timed too early.

Weak springs in automatic distributor advance.

Incorrect spark plug (too hot).

Carbon on spark plugs or burned porcelains.

Sharp metallic edges in combustion chamber.

Hot valves resulting from insufficient tappet clearance, use of the wrong type of valve, improper seating, thin edged valves, warped or cracked valve heads.

Excessive engine temperatures, caused by faulty water circulation.

Low octane fuel, old or stale fuel. Extremely lean carburetor mixture.

#### BACK-LASH KNOCK

This can, under certain conditions, appear as a rattle or chucking noise in the reverse gear, and it may be easily confused with other types of engine knocks. It is caused by normal back lash between the teeth of the reversing gears, and it is heard only at low speeds, "washing out" when the engine is accelerated above 600 rpm. Normal back lash is not an indication of wear, and is harmless.

#### VIBRATION ORIGINATING AT ENGINE

The commonest sources of vibration originating in or on the engine, as distinguished from causes originating outside the engine, are, misfiring; misalignment of engine and propeller shaft; bent or off-center coupling; engine loose on bed; engine support loose on cylinder block: unbalanced or sprung crankshaft; unequal compression of cylinders.

#### VIBRATION FROM OUTSIDE THE ENGINE

Thumping and vibration originating outside the engine often telegraph along the propeller shaft and appear to originate in the engine. These may be caused by a bent propeller, sprung propeller shaft, worn stuffing box.

#### UNCOMMON ENGINE NOISES

The following possible causes of engine noise are more rare but should be considered and checked in locating foreign sounds:

Flywheel loose on crankshaft.

Crankshaft pulley loose on flywheel.

Foreign object in exhaust passages.

Loose exhaust pipe at manifold connec-

Loose engine accessories, such as generator, water pump, etc.

Excessive timing gear back lash (sharp rap).



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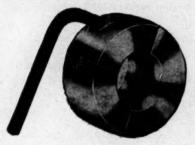
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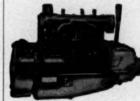
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RED WING MOTOR CO. RED WING MINNESOTA

#### BACK-FIRING AT CARBURETOR

Engine back-firing through the carburetor when starting cold is many times unavoidable as it is the result of an imperfect air-gasoline mixture, which will automatically correct itself after the engine reaches normal operating temperatures. The reason why of back-firing in this case is late burning of the mixture in the cylinder, due to improper ratio of fuel to air, igniting the incoming charge and causing an explosion in the intake manifold and carburetor. Thus lean mixtures and retarded spark are the commonest cause of back-firing. Continued back-firing after the engine is warm should be corrected by checking the following possible causes:

Excessively lean fuel mixture.

Late ignition timing.

Incorrect valve timing.

Improperly seating valves, especially intake.

Obstruction in fuel line.

Dirt or water in sediment bowl.

Intake manifold air leaks.

Poor grade of fuel.

Secondary wires crossed in distributor cap.

Distributor governor sticking.

Badly worn or improper spark plugs.

#### ABNORMAL OIL CONSUMPTION

Leaks through poorly fitting gaskets or worn oil seals.

Cracked pan—the above will be evident by oil in the bilge.

Worn piston rings.

Worn rod and main bearings.

Worn valve guides.

#### LOW OIL PRESSURE

Complete absence of oil pressure is a sure sign of a broken line, either inside or outside the engine. Normal oil pressure in a new engine is 30 to 40 pounds. A pressure of less than 20 pounds calls for investigation. (5 to 15 lbs. is satisfactory at idle). Above pressures may vary for different engines. SEE manufacturer's recommendations for your engine.

Possible causes of low oil pressure are: Incorrect grade of oil. Correct viscosity should be as recommended by manu-

facturers.

Badly diluted engine oil.

Worn bearings.

Oil relief valve not properly seating. Look for dirt on seat of valve and adjust tension according to manufacturer's recommendations.

Clogged oil cooler.

Air leak in oil pump suction line. Sludge on oil pick-up screen.

Pick-up screen not submerged. due to insufficient oil, or engine installed at too steep angle.

Worn or damaged pump gears. Inaccurate oil pressure gauge.

#### HIGH OIL PRESSURE

Oil pressure should not exceed the maximum recommended by the engine manufacturer, normally around 40 lbs., except momentarily when the engine is started up cold. Abnormally high oil pressure is not desirable because it increases oil consumption. Possible causes of high oil pressure are:

Engine oil too heavy. Relief valve not opening. Obstruction in distributing line. Inaccurate oil pressure gauge.

#### FOULED SPARK PLUGS

Worn piston rings.
Worn cylinders.
Excess piston clearance.
Rich mixture.
Plugs too low in heat range.
Gaps too narrow, causes missing at ile.

#### BURNED SPARK PLUGS

Plugs too high in heat range.
Lean mixture.
Late ignition timing.
Engine overheated. See Overheating.
Low octane fuel.
Badly leaking valves.
Cracked valve seat.

#### MAINTAIN YOUR ENGINE

Keep your engine clean. Wipe off oil, grease and dirt. Sand rust spots and repaint with engine enamel.

Keep wiring clean, dry, and away from bilge and hot exhaust pipes.

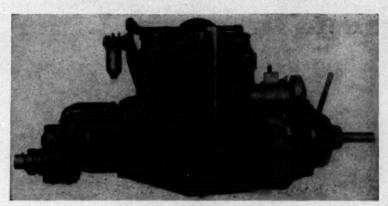
Periodically check all fuel lines for

Vibration causes copper to become brittle and crack. Unsupported lines connected to engine should be annealed each

Obtain an operator's instruction manual from the manufacturer of your engine and carry on board at all times.

NOTE: Much of the above information was obtained from the Gray Marine Motor Company Maintenance Handbook.





# Power Take Off Engines That Will Work For You

The second secon	The State of the Control of the Cont		
SEA	SEA	SEA	SEA MATI
JEEP	PRINCE	ROVER	SPECIAL
134 cu. in.	230 cu. in.	320 cu. in.	404 cu. in.
61 H.P.	95 H.P.	120 H.P.	150 H.P.

## DIESEL

4-226	6-298	6-529	6-935
226 cu. in.	298 cu. in.	529 cu. in.	935 cu. in.
60 H.P.	75 H.P.	120 H.P.	190 H.P.

## REDUCTION GEAR RATIOS AVAILABLE

11/4:1	2:1		21/4:1
11/2:1	31/2:1		21/2:1

# BRYANT'S MARINA, Inc. T. B. COOK ENGINE CO. 1117 East Northlake Seattle 5, Washington Portland 1, Oregon San Francisco 5, California

# KERMATH MANUFACTURING COMPANY 5895 COMMONWEALTH AVENUE DETROIT 8, MICHIGAN

# **GASOLINE MARINE ENGINES-1950**

**Specifications** 

						_	lı			
Model Name or Number	H.P.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Width	Height Above Shaft	Depth Below Shaft	Weight
ARNOLT										
Arnolt DDT Arnolt RDT-2 Arnolt RDT-3 Arnolt RDT-4	20 20 20 20	2½x3½ 2½x3½ 2½x3½ 2½x3½	4 4 4	61 61 61 61	2800 2800 2800 2800	30 34 34 34	17 17 17 17	10 10 10 10	6 6 6	281 302 305 305
BARR										
Ford 4-120	40	31/4 ×33/		120	3200		****			******
Ford Model A & B	40	3¼ x3¾ 3¼ x4½ 2% x2¼	****		2200	****	****	****	****	*******
Ford V8-60	60	2% x2¼ 3¼ x4%	****	136 226	3500 3200	neie .	****	****	****	********
Ford 6-95	115		****	254	3200	****	****	****	****	********
Ford V8-145	145	3½x4% 3½x4% 3½x4% 3½x4 3½x4 3½x4 3½x4½ 3¼x4½	****	239 337	3200 3200	****	****	****	****	******
Chevrolet 6	90	3½x3%	****	216	3300	****	****	****	****	*******
Chevrolet 6	e) 105	31/2×4	****	235 250	3300 3600	****	****	***	****	*******
Dodge 6	102	34×4%	****	230	3600	****	****	****	****	*******
Plymouth Buick 8-40	95	31/4 ×43/4	***	217 248	3600 3600	****	****	****	****	*******
		31/2×41/4	****	320	3600	****	****	****	****	*******
Cadillac V8 OHV	160	3½x4¼ 3¼x3%	****	331	3800	****	****	****	****	
Oldsmobile Rocket Willys Jeep	60	3% x3% 3% x4%	****	303 134	3600 4000	****	****	****	****	*******
Willys Jeep Willys Hurricane	65	31/4×4%	****	134	4000	****	****	****	****	******
BRENNAN										
Imp.	25	21/4 x31/4	4	50	4000	26	12	11	5	160
Imp. II		2¼ x3¼ 2¼ x2¼ 2½ x2¼	4	- 44 44	5000 5000	30	15 15	12	5	170 175
Fisherman EE-4	50	41/2×5	4	318	1500	53	18	18	5	1000
		4½x5 4½x5 3¼x4% 4x5½	4	318	2000 3200	53 52	18	18	5	750
Frontenac60	95	4x53/4	6	230 415	1600	67	16 20	15 25	6	770 1200
100	100	4XD%	6	415	2200	65	20	25	9	900
100R	100	4% x51/2 4% x51/2	6	500 600	1600	67 65	20 20	25 25	9	1500
125 150	150	4½x6½	6	620	2000	73	22	30	7	1000 1500
175	200	5x61/2	6	765	2000	73	22	23	7	1600
CHRIS-CRAFT										
В	60	31/4×4	4	132.7	3200	32	24	15	9	456
K&KO KL&KLO	105	37/16X41/a	6	132.7 229.7 236.6	3200 3200	40	24	16 16	10 10	626 626
KLC	120	31/16X41/4 31/2 X41/4	6	236.6	3800	40	24 26	16	10	626 850
M&MO	130	4×4¾	6	320.4	3000	46	26	17	10	850
ML&MLO	131	31/16X41/4 4X41/4	6	236.6 339.2	3800	40 46	24 26	16 17	10 10	626 850
MBL	158	4x4½ 4x4½	6	339.2	3400	46	26 26	17	10	850
W&WO	160	4%x4%	6	404.3	3000	53	27	19	11	1232
CHRYSLER								100		
M46 Ace Special	87	3½ x4% 3½ x4% 3½6x4½	6	217.7	2800 3600	44	23 23	17	8	710
M46 Ace Special	103	3%x4%	6	217.7 250.6	2800	44	23	17	9	710 805
M47 Crown M47 Crown Special M48 Royal	125	31/2×41/2	6	250.6	3600	47	28	17	9	805
M48 Royal Special	185	314 x4 %	8	323.5 323.5	2800 3600	63 55	26 29	20	10 10	1030
M49 Majestic	160	3½x4½ 3¼x4½ 3¼x4¾ 4x5	8	376.9	3000	59	27	20	13	1030 1428
CLINTON										
300	1.1	2x11/2	1	4.71	3600	11	131/2	81/2 12%	4.178	28
VS300	1.4	2x11/2	1	4.71	3600 3600 3600	12 12	13 13 1/2	12%	4.150	36
B700 VS700	2	2x11/2 2x11/4 2x11/4 23/4x11/6	1	5.89 5.89	3600	14%	111%	10	4.100	28 36 34 35
C1100	3	2%x1%	î	8.3	3600	14%	111%	12	4.150	42
CROSLEY										
CMA	25	21/2×21/4	4	44	4500	381/2	7%	13%	61/4	223
DU BRIE										
Du Brie		3% x4	1	5	950	21	17	19	5	165
Note: The to speed limited	lone ener	differtions .		always s	h			matten		der Im

Note: Due to space limitations, specifications are not always shown to the exact fraction, especially in piston bore and stroke measurements.

# In the Gray Line You'll find ONE RIGHT ENGINE

to fit your boat

Cruiser Engines for Cruisers



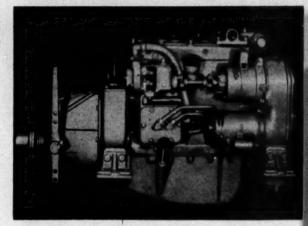
Racing Engines for Racing



Runabout Engines for Runabouts

Auxiliary Engines

Workboat Engines for Workboats



#### Distributors

CANADA: Vancouver, British Columbia—Hoffari, Ltd.; Winnipeg, Manitoba— Mumford-Medland, Ltd.; St. John's, Newfoundland—Newfoundland Tractor and Equipment Co.; Erieau, Ontario—Ontario Marine Engine Seles; Liverpool, Nova Scotia—Steel and Engine Products, Ltd.; Montreal and

Quebec — United Continental Engines, Ltd.

SEATTLE: Jules Engine & Equipment Company,
Distributor for Washington, Oregon
and Alaska.

SAN FRANCISCO: Hall-Young Company.

LOS ANGELES: Chas. E. Smith.

SAN DIEGO: Nuttall-Styris Company.

GRAY MARINE MOTOR COMPANY - DETROIT 7, MICHIGAN Manufacturers of Gasoline and Diesel Engines — 10-200 h.p.



				Inches						
Model Name or Number	н.Р.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Wideh	Height Above Shaft	Depth Below Shaft	Weight
FEDERAL										
Model S	. 90	3.30x4.4 3.19x3.7		226 239	3000 3500	50 42	27 25 27	20	9 8	675 680
Model T	. 115	3.50x4.4	0 6	254	3400	50	27	20	9	675
Model L	. 145	3.50x4.3	8 8	337	3600	50	27	23	11	1000
FLAGSHIP										
Fisherman	100	3.3x4.4 3.3x4.4	6	226 226	2800 3400	48	25 25	17%	87%	763 743
GERSHEL										
Bulldozer	. 40	3¼ x3%	4	119.5	3200	39	20 20	12	****	442
The Jeep	60	31/4 x 4 3/4 31/4 x 4 3/4	6	134.2 226	4000 3300	41	20 24	20 19	****	551 659
Jet-99 The Mercury 337	100	31/6×31/4 31/2×41/4	8 8	239 337	3600	44 50	24 27	22 23	****	640 962
	102	372A178		991	3000	30		20		202
GLADDEN Model 40M	4.3	914 *2	1	14.7	3200	14	18	15	5	79
Model 75M	7.0	2½x3 2½x3	1	19.5	3200	14	18	15	5	78 78
Model 75M Starter	6.5	2%x3	1	19.5	3200	14	18	15	9	135
GRAY		01/01/			*****	-		**		
Light Four 69 Lugger Sea Scout-91	25	2½x3½ 2%x3½	1	69 91	1800 2000	29 30	17	12 12 12	7 7	370 380
Lugger 112 Lugger 162	. 31	3416×31/2 37/16×4%	4	112 162	2000 1800	31	18 19	12	7 8	400 565
Express Four-140	. 55	31/16X4% 21/2X31/2	4	140	3000	32 29	19	15	8 7	545 390
Phartom Four-45 Fireball Four-50	45 50		1	91 91	3600 4000	29	18 19	12 16	7 8	395
Fireball Four-50 Phantom Four-62 Express Four-162	62	3316x4% 3316x4% 2%x34	4	140 162	3600	29 33 33 25	21 19	15 15	8	525 565
Racing-91 Lugger Six-226	65	2%x3½	6	91 226	5000 2400		22	16	8 7	275
Phantom Four-75	75	35/16X4% 37/16X4%	4	162	3600	40 34	19 21	15 15	8	710 540
Fireball Four-90	83	3%6×4%	6	244 162	2400 4000	34 43 33 40	21 23 24 19	16 20	8	825 540
Phantom Four-75 Lugger Six-244 Fireball Four-90 Express Six-226 Lugger Six-330	93	3%6x4% 3%6x4% 3%6x4% 4x4%	6	226 330	3200 2400	48	19	15 17	8 8 8 8 9	710 1070
***************************************	100	3916X4%	6	226	3400	40		15	8	660
Phantom Six-112	. 112	3%6x4% 3%6x4%	6	244 226	3200 3600	43	22 23 22 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	16 15	8 8	825 675
115	115	37/16X4% 4X4%	6	244 330	3600 3200	42 48	25	16 17	8 9 8	785 1070
Express Six-330 Phantom Six-125	125	31/16X4%	6	244	3600	42	25	16		800
Fireball Six-140 Express Six-427	150	31/16X4% 45/16X4%	6	244 427	4000 3200	42 51	25	16 18	10	900 1250
Super Six-330 Super Six-427	155	4x4% 4516x4%	6	330 427	3400 3200	46 51	29	18 18	10	970 1225
Fireball Six-160	160	3%6x4% 3%6x4%	6	244 244	4000 5000	42 39	27 29	19	8	785 650
HALL-SCOTT	110	3716AT78		211	3000	00	20	20		900
183 & 184 Invader	200	51/2×7	6	779	1700	73	25 25	28	12	1900
168 & 169 Invader 186 & 187 Invader	250	5½x7 5½x7	6	779 779	2100 2100	73 90	25 25	28 28	12 19	1900 3265
2268 & 2269 Defender 2286 & 2287 Defender	630	5% x7 5% x7	V-12 V-12	2181 2181	2100 2100	88 102	44	31 31	12 19	3600 4600
	630	574 X1	V-12	2101	2100	102	**	31	19	1000
Sea Pup	5	2% x2%	1	18	3000	17%	13%	10%	476	78
Sea Jeep, medium duty	25	95/	4	65	3400	17% 29¼	13% 18%	10%	47% 5%	300
Sea Jeep, high speed	61	3%x4%	1	134	3600 2600	36	21%	17%	7	540 540 700
Sea Prince, medium duty Sea Prince, high speed	100	31/2×41/4	6	230	3600	42%	24	16	8	700
Sea Rover, medium duty Sea Rover, high speed	98 130	4x414	6	320 320	2200 3000	52% 52%	23%	18 18	10 10	700 925 925 1250
Sea Mate, medium duty	120	4½ x4%	6	134 134 230 230 320 320 404 404 678	2200	5614	261/4	20	10%	1250
Sea Farer, special	225	3½x4% 3½x4% 3½x4½ 3½x4½ 4x4½ 4x4¼ 4¼x4% 4¼x4% 5x5%	6	678	3600 2200 3000 2200 3000 2400 2400 2400	42 1/4 52 1/4 52 1/4 56 1/4 69 1/4	21% 24 24 23% 261/4 261/4 29%	16 16 18 18 20 20 2354 2914 3434	11	1250 1600 2200 2825
Sea Jeep, nign speed Sea Prince, medium duty Sea Prince, high speed Sea Rover, medium duty Sea Rover, high speed Sea Mate, medium duty Sea Farer, special Sea Raider, stx Sea Raider, special	580	5¼ x6 5¼ x6	12	779 1560	2400	761/2	421/2	34%	11 101/2 101/2	2825
LATHROP										
Standard	30	514×614	3	463	660	60	25 25	22 22	10	1450
Standard	40	5½x6½	4	618	710	66	20	22	10	1750

							Inches			
Model Name or Number	н.р.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length Overall	Wideh	Hoight Above Shaft	Per s	Weight
LH-4 LH-Master LH-6 LH-Atom LH-DeLuxe LH-Super 125-Mystic	70 64 90 120	3¼x4 4x4¼ 3¾x4¼ 4x4¼ 4x4¼ 4x4¼ 4%x5½	4 4 6 6 6 6 6	123 214 282 282 320 339 585	2200 2500 2200 3000 3000 3200 1800	34 38 47 47 47 47 65	สมมมมมมม	14 17 17 17 17 17 17 28	6 8 8 8 8 8 8	440 795 2200 876
175-Mystic Engineers Engineers Engineers	175 60 75	5%x6% 5%x7 6x7 6x7	6 4 6	1013 665 792 1188	1535 875 915 1000	78 75 75 75 92	29 29 29 29	29 24 24 24 24	9 10 10 10	2100 2290
LAUSON										
RSM-826 TLM-826 PAM-826	3	2x1% 2%x2% 2%x2%	1 1	5.9 8.94 17.85		12 11 16	12 14 16	10 11 13	5 6 7	86 53 87
MICHIGAN										
Junior 4	15	2% x3 3% x4 3% x4 3% x4%	4 2 4 6	65 66.3 132.7 229.7	4000 1900 3400 3200	28 28 33 40	20 20 20 20	12 15 15 15	6 6	1846
NORDBERG										
Bluefin	95	3½x4½ 3½x4½ 4x4½ 4x4½	6 6 6	230 230 320 340	2500 3200 2500 3200	45% 45% 49% 49%	2214	14% 14% 16 16	81/4 81/4 9	2000
OSCO										
425D* Sea Atom	40 60 95 1C0 115	2.62x3 3.18x3.75 3.4x3% 3.3x4.4 3.18x3.75 3.5x4.4 3.4x3% 3.4x3%	4 4 4 6 8 6 8 8	65 120 134 226 239 254 239 239	3400 3400 3600 3200 3600 3200 3600 5200	39 40 41 58 49 58 49 49	19 20 23 28 24 28 27 27	13 15 21 20 23 20 23 23 23	6.5 8.37 7 8.5 8 8 5 8	######################################
* Available with 2:1 ** Available with 1.51	reduction :1, 2:1 and	gears. I 3:1 reduc	tion g	ears.			4			
PACKARD	100	03/ 43/		245	3200	51	25	17	9	940
1M-245 1M-356		31/4×41/4 31/4×45/6	8	356	3200	59	27	18	10	1216
PALMER										
BH HH ZR-1 ZR-2 ZR-3 ZR-4	10 7 18 30 40	3x3½ 3x4 5½x6 5½x6 5½x6 5½x6	1 2 1 2 3 4	26 59 143 286 429 572	2500 1600 700 800 800 806	15 33 42 50 62 72 46	15 19 26 26 26 26 19	15 17 24 24 24 24 24 13	4% 5 7 7 7 7	100
PH-75 PH-120	80	3½ x4 3½ x4¼ 4x4¼	6	132.7 230 320	3000 3000	58 62	19 19 19	15 18	10 10	70



For pleasure craft and work boats. Compact, smooth-running with built-in safety features. 400 to 5,000 watts. A.C., D.C., Battery Charging and Dual-Purpose A.C.-D.C. models. See your dealer or write for folder.

## D. W. Onan & Sons Incorporated

3780 University Ave. Minneapolis, Minnesota

# SCRIPPS MARINE MOTORS

## SPECIFICATIONS

	Series	Horsepower	R.P.M.	Cu. In. Displ.	Price
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#### STANDARD MODELS

30	50	3200	134	\$ 670.00
F-4	81	3000	220	1,021.00
Seiner Special	81	3000	220	
90*	95	3000	230	929.00
Mercury	100	3600	239	826.00
100*	110	3000	320	1,237.00
6-339*	140	3200	339	1,442.00
150	185	3000	447	2,673.00
160	175	2400	548	3,186.00
170	200	2400	611	3,278.00
200	225	2400	678	3,370.00
300	350	2600	894	4,882.00

#### SPECIAL HIGH SPEED

4-60	60	3400	134	\$ 670.00
6-95*	95	3000	230	929.00
6-110*	110	3600	236	1,010.00
6-130*	130	3200	320	1,252.00
6-145*	145	3200	339	1,457.00
6-158*	158	3400	339	1,500.00

#### DIESELS

4-166 Coast Guard Life-Saver	50	3000	166	\$ 2,722.00
7000*	79	2600	255	2,754.00
8500*	84	2600	. 298	3,051.00
6-935	220	2000	935	10,660.00

Hydraulic reverse gears optional—extra.

Optional reduction gear ratios available for all models.

See ANY Boat Yard or Marine Supply Dealer

SCRIPPS MOTOR COMPANY

							— ln	ches —		
Model Name or Number	н.Р.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Width	Height Above Shaft		Weight
RED WING										
KK Meteor Arrowhead Jr. B Arrowhead Hiawatha Special 140-GK	18 40	3% x4% 2½ x3% 3½ x4 4½ x5 3% x4% 4x4% 4½ x5%	2 4 4 4 6 6	105 61 133 318 186 320 525	1000 2800 3000 1400 2400 3000 2000	35 28 35 54 41 54 72	16 12 16 16 16 17 24	16 12 16 20 9 18 30	6 6 8 7 8 9	400 265 500 845 600 950 1900
REGAL										
XB XC DF	10-15 46 84	3¼ x4 3¼ x4 3¼ x4½	2 4 6	66.3 133 298	1900 2600	32 36 54	20 20 23	12 14 14	8 6 8	375 465 1460
SCRIPPS										
30	60 80 95 95 100 110 110 131 131 138 145 158 158 175 200 225	3½ x4 3½ x5 3½ x5 3½ x5 3½ x5 3½ x4½ 4x4½ 4x4½ 4x4½ 4x4½ 4x4½ 4x4½ 4x4½	4 4 4 6 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6	134 134 220 239 239 329 329 339 226 236 236 339 347 548 611 678 894	3200 3400 3000 3000 3600 3600 3200 3600 3200 32	33 33 471/2 41 41 43 47 47 41 47 47 47 47 57 66 66 66 59	22 22 17 22 22 22 22 22 22 22 22 22 22 22 22 22	14 14 2011 16 16 23 18 16 16 18 18 18 18 21 21 21 21 21 21 22 22	8 8 9 10 10 8 8 10 10	57 580 584 584 59 50 50 50 50 100 100 100 100 100 100 100
STAR			A SE				-			
Emperor 4-45 Emperor 4-50 Emperor 6-76 Emperor 6-79 Emperor 6-90 Emperor 6-95 Emperor 6-95 Emperor 6-85 Emperor V8-166	40 55 70	2%x3 34x4 34x4 34x44 34x44 34x44 4x44 4x4	4 4 4 6 6 8 6 6 8	65 133 133 221 221 239 320 320 331	3800 2400 3200 2600 3500 3600 2600 3200 3600	32 38 38 44 44 46 50 50 45	21 21 26 26 24 26 26 26 35	13 14 14 15 15 24 17 17 24	8 9 10 10 8 10 10 9	10 10 10 10 10 10 10 10 10 10 10 10 10 1
UNIVERSAL										
WM WMG Twin AFT Twin AFTL UJ UJR UJR UJR BN* BNM* BNR* BNR* BFA BFAM BFAM BFAM BFAR BFAM BFAR BFAM BFAR BFAM LSG LSGM LSGM LSGM LSGM LSGM LSGM LSGM	8 12 12 12 25 25 25 25 25 25 45 45 45 50 50 50 60 90 90 910	4% x4½ 4% x4½ 3x3½ 3x3½ 2% 6x3¼ 2% 6x3¼ 2% 6x4 2% x4 2% x4 2% x4 3x3½ 3x3½ 3x3½ 3x3½ 3x3½ 33¼ x4½ 33½ x4½ 33½ x4½ 33½ x4½	11224444444444444446666666	67.6 67.6 49.5 49.5 64.46 64.46 95 95 95 99 99 149.3 149.3 129.93 149.5 128.5 260 260 260	1200 1200 2200 2200 3500 3500 3500 2500 2500 2	19 28 27 27 27 32 35 34 42 41 35 35 43 40 47 47 47 38 44 50 61	13 1/4 20 20 17 17 17 17 17 17 17 17 21 21 21 21 29 20 20 20 20 20 20 20 20 20 20 20 20 20	16 16 16 13 13 13 15 15 15 16 16 16 17 17 17 21 16 18 18	6677666677887788888886889999	205 205 344 316 316 3114 411 372 515 482 397 515 646 656 656 656 656 656 656 656 656 65

\*Above models available for operation on fuel oil or kerosene



Inboards to your pleasure boat, work boat, or to your sailing craft as a "stand by", ready to take over when sail power fails.

Every Wisconsin Inboard is equipped with such features as a weather-sealed rotary type OUTSIDE high tension magneto for fast starts and quick, easy servicing when needed, "auto type" shifting for complete power control, and electric starting if desired. Also, you have no cooling problems or bulky cooling installations to make and maintain, for Wisconsin Inboards are cooled by air alone—the last word in trouble-free cooling at all seasons. All models are compact, light weight 4-cycle types; no mixing of oil with fuel.

Four models to choose from . . . 4-cycle, 4, 5.8, and  $7\frac{1}{2}$  hp. single-cylinder, and 13 hp. 2-cylinder types.

Write for bulletin S-116 and the name of your nearest Wisconsin Inboard distributor.



# WISCONSIN MOTOR CORPORATION

World's Largest Builders of Heavy-Duty Air Cooled Engines

Model Name or Number	н.р.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Wideh	Height Above Shaft	Depth Below	Weight
UNITED STATES MOT										
NM-1 2M-1 AM-1 14M-1	134	2x2 2x2	1	6.28 6.28	2800 2800	11	13 13	10	*123	40 55
AM-1	214	214 x214	1	8.95	2800	17	14	9	2000	55 75 95 120 135 260 180
ZM-1	7	2¼ x2¼ 2% x2% 3x3¾	1	14.21 22.97	2800 2800	17	15 16	9	****	120
7M-1 BX3S	7	3x31/4	1 2	22.97 39.0	2800 2200	19 26	16 19	11 13	****	135
<u>ok</u>	5	2% x3 3% x4%	1	49.7	1200	18	14	18	***	180
TK	10	3%x4%	2	99.4	1200	34	14	18	****	330
VIMALERT CO.										
Allison Aircraft Engin	100-1000	51/4×6	12	1700	2600	96	45	39	17	2250
WISCONSIN ABM	4	214×234	1	13.5	2800	14	12	14	5	105
AKM	5.4	214x24 214x24	1	17.8	2800 2800	14	12 16	14 16	5	105 155 260
TFM	13	3%x3%	1 2	23 53.9	2400	15 29	22	25	7	200
CHAMPION  1L 2K 4L 2L-HD 4L-HD 4L-S-1X  CHRIS CRAFT J K  CORSAIR 5020 5021 5027 5023	4.2 4.2 8.5 4.2 8.5 8.5 10 3.6 4.0 5.0 7.5	2x1% 2x1% 2x1% 2½x1% 1%x1% 2½x1% 2½x2 2½x2 2½x2 2½x1% 2½x1%	RD	5.84 5.84 12.41 12.41 12.41 9.42 19.94 6.21 6.21 7.48 11.0	4300 4300 4200 4200 4200 4200 4000 4000		IES			Sats Ot SESPEN
5028	10.0	21/4×2		14.19	4200	****		****	****	
EVINBUDE	1.5	184-114	1	3.1	4000					
Sportsman	3.3	1%x14	i	6.22	4000	****	****	****	****	
Fleetwin	7.0	2%x1% 2%x2%	2 2 2	12.4 19.94	4000 4000	****		****	2000 2000	
Speeditwin	22.5	1%x1% 1%x1% 2%x1% 2%x2% 2%x2% 2%x2%	2 2	30 35.7	4000	****	****	****	****	115
FIRESTONE										
10-A-71	3.6	214x134	1	6.23	4000	17	11	39	22	58
10-A-72 10-A-73	4.0	21/4×13/4 21/4×13/4	1	6.23 7.48	4000	20	11	40	22	70
10-A-74	7.5	1%x1% 2x1%	2	11.0	4200	21	11	45	NANAA	58 70 74 80 90
10-A-75	10	21/4×2	2	14.9	4200	21	11	45	22	30
ELGIN										
58305840		1½x1% 2x1%	1	2.43	4000	****	****	****	****	191/2
5856	5	2x1%	2 2	10.6	4000	****	****	****	****	47%
5875 5882	16	2x1% 21/4x3	2	10.6 24.0	4000		20.00 Et.en	****	****	92
JOHNSON										
Sea Horse 2½	2.5	1%x1%	2	4.08	4000	37	10		****	81
Sea Horse 10	10.0	1% x1% 2x1% 2% x1% 2% x2%	2 2 2 2	8.84 16.6	4000	40 43	11	****	****	44 58
Sea Horse 25	25	2%x2%	2	35.7	4000	46	12		****	85

							— In	iches —			
Model Name or Number	H.P. Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Wideh	Height Above Shaft	Bolow Shaft	Weight		
LAUSON											
S-851		21/4×1 1/4 21/4×1 1/4 21/4×1 1/4	1 2 2	6.29 12.58 12.58	4000 4000 4000	4208 6209 6430	50-0 660e 950e	9000 9000 9000	9078 9104 7104	44 57 63	
MARTIN			1								
20 45 S.T.* 75 S.T.*	7.5	1%6x1% 1%x1% 2x1% 2%6x1%	1 2 2 2	2.88 5.76 11.00 13.15	4300 4300 4000 4800	36 37 39 40	9 9 10 12	8 9 11 11	28 28 28 28	30 36 44 56	
*Synchro-Twist	(control	ls speed a	and sp	ark)				2 151			
FLAMBEAU		- 1									
174520	2.5	2x1½ 2x1½	1 2	4.62 9.24	4000 4000	33 35	10 10	Maria Serve	grice good	29 35	
SEA KING											
3S10W 5S10W 12S10W	- 5	2%x1½ 2x1½ 2%x2¼	1 2 2	5.32 8.84 19.94	4000 4000 4000	36 401/2 43	91/4 12 13	32 36 37	5 6½	28 45 66	
SCOTT-ATWATER				1					1		
1-12 Non-shift 1-14 Shift 1-20 Shift 1-16 Shift 1-30 Shift 1-35 Shift	4.0 7.5 5.0 16.0	24x14 24x14 2x14 14x14 24x24 24x2	1 1 2 2 2 2 2	6.21 6.21 11.0 7.48 19.95 14.19	4000 4200 4200 4200 4200 4200	****	****	****	****		
WEST BEND											
15090 15040 15056 15076 15082	2.5 5.0 7.5	1½x1% 2x1½ 2x1% 2x1% 2x1% 2½x2	1 1 2 2 2 2	2.43 4.9 10.6 10.6 24	4000 4000 4000 4000 4000	0000 0000 0000 0000	0000 0000 0000	0200 0200 0200 0200	6200 6200 6200 6000	19.5 29.5 47.75 48.25 92.	



#### STORM KING BOATS

Rugged, sturdy, durable sedans, runabouts, inboard and outboard. Available in 14', 16' and 18' models.

MORRIS, Inc.

14th St. Yacht Basin, Everett, Wn.

# Keller ...

- \* Boat Speed Indicators
- \* Automatic Throttles
- ★ Steering and Engine Controls

Made by Race Drivers for Race Drivers

# Keller Manufacturing Company

At Richmond Highlands Seattle 33, Wn.

#### FOR BETTER SERVICE!



# Use STAY-TITE Marine Products

For Boats of All Types. Long-lasting, Economical. Waterproof. Easily applied. Favorites among boat owners and builders for over a generation.

Dealers! Write for nearest jobber's name.

STAY-TITE PRODUCTS CO. Dept. 10, 3107 Detroit Ave. Cleveland 13, 0

# DIESEL MARINE ENGINES-1950

								_	— II	nches —		
Model Name or Number	H.P.	Bore Stroke	Cyl.	Piston Displ. yl. Cu. Ins.	Max. R.P.M.	L'eng	Width	Height Above Shaft		Weight		
ATLAS										Hiller		
4EM327		7x81/2	4	327	650	110	46	46	16	8330		
4HM528		8x101/4	4	528	450	136	43	57	12	11300		
4HM763	110	9x12		768	325	154	47	60 50	12 17	14760		
4KM668RG	150	9x101/2	4	668 327	650	147	55 42	52	16	10600		
6EM-327		7x8½	6	1125	350	163	51	65	17	17400		
4HM1125 5KM668RG		10%x13 9x10%	5	668	600	163	55	50	17	18000		
6HM1125		101/4×13	6	1125	350	190	52	65	17	26750		
6KM668RG		9x101/4	6	668	750	178	55	50	17	21000		
6HM1558		111/4×15		1558	360	202	62	77	20	38900		
8KM668RG		9x101/4	8	668	750	208	55	57	17	25500		
8KM668DR		9x101/6	8	668	750	188	55	50	17	24400		
6KMT668RG		9x101/4	6	668	750	178	55	70	17	22000		
6KMT668DR		9x1014	6	668	750	158	55	70	17	21000		
6HM2124		13x16	6	2124	325	230	75	82	20 17	46670		
8KMT668RG	550	9x101/2	8	668	750	208	55	70	17	26700		
6HMT2124	600	13x16	6	2124	325	230	75	87	21	45570		
8KMT668DR	570	9x101/4	8	668	750	188	55	70	18	25700		
6HM3358		15x19	6	3358	325	268	89	100	27	76000		
6НМТ3358	1000	15x19	6	3358	325	268	89	106	27	79000		
BUDA												
2-BDMR-77	15	33/ex434	2	77	2000	38	26	23	10	100		
4-BDMR-153	40	31/16×41/8	4	153	2400	46	26	23	10	1005		
6-BDMR-230	60	37/16X41/6	6	230	2400	56	26	23 23 23 23 23	11	1250		
6-BDMR-278		3%x4%	6	273	2400	56	26	23	11	1200		
6-DTMR-317		3%x5%	6	317	2100	66	29 29 32 32 36	32	13	1705		
6-DTMR-468		4% x5%	6	468	2000	72	29	34	14	2100		
6-DAMR-844	215	514 x614	6	844	2000	77	32	31	12	300		
6-DASMR-844		514 x61/2	6	844	2000	.77	32	31	12	4800		
8-DAMR-1125	243	514 x614	8	1125	2000	101	36		15	9800		
8-DASMR-1125	310	514 x61/4	8	1125	2000 1200	101	40	30 47	15 15	9000		
	254	6% x8%	6	1879 1879	1200	112	48	47	15	0000		
6-DCSMR-1879 8-DCMR-2505		6% x8%	8	2505	1300	133	48	47	19	10 10		
8-DCSMR-2505		6% x8%	8	2505	1300	136	50	47	19	1130		
CATERPILLAR												
D397	400	5%x8	V12	2493	1200	148	49	65	12	14000		
D386		5%x8	V12	2493	1200	148	49	60	12	13270		
D375		5%x8	V8	1662	1200	116	49	65	9	11450		
D364		5% x8	V8	1662	1200	116	49	60	9	11270		
D17000		5%x8	V8	1662	1000	113	50	55	10	9688		
D13000		5%x8	6	1246	1000	120	41	54	7	7450		
D8800		5% x8	4	831	1000	91	45	51	7	500		
D318		41/4×51/4	6	525	1600	86	30	44	- 8	3050		
D315		4%x5%	4	350	1600	70	30	42	6	2900		
D311		4x5	4	252	1600	65	31	37	5	2500		
	dimensio	4x5 ns are for		252	1600	65	31	37	5	26		

#### COOPER-RESSEMED

COULER-DESSEMEN									
FV-6-MG 360	9x101/2	6	******	900	171	70	57	34	20100
FV-8-MG 485	9x101/2	8	*******	900	186 220 262	70	57 57 57	34	26950
FV-12-MG 728	9x10½	12	******	900	220	70	57	34	36750
FV-16-MG 970	9x101/2	16	*******	900	262	70	57	34	46600
FV-6-MGT 533	9x101/2	6	******	900	171	70	61	34	24850
FV-8-MGT 718	9x101/2	8	******	900	186	70	61	34	30450
FV-12-MGT1065	9x101/2	12		900	255	72	61	34	45750
FV-16-MGT1440	9x101/2	16	*******	900	303	72	61 61 61 67	34	53300
GS-6-DR 600	10½x13½	6	******	750	175	57		22	27000
GS-6-DRT 800	10%x13%	6	******	750	178	57	67	22	27780
GS-8-DR 800	1044×1344	×	Carrier Co.	750	2008	07	66	244	33000

# **BUDA ENGINE Sales and Service**

Both Gas and Diesel

BUDA ENGINE AND EQUIPMENT CO., Inc.

SEATTLE, WASH 3407 Airport Way

SEneca 1230

For Yachts and Work Boats

						Inches —					
Model Name or Number	H.P.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Width	Height Above Shaft	Below Shaft	Weight	
GS-8-DRT JS-6-DR JS-6-DRT JS-8-DRT JS-8-DR JS-8-DRT LS-6-DR LS-8-DR LS-8-DR LS-8-DRT LS-8-DRT LS-12-DR LS-12-DR LSV-16-DR LSV-16-DRT	745 995 995 1320 1020 1355 1355 1810 1850 2700 2640	10½x13½ 13x16 13x16 13x16 13x16 15½x22 15½x22 15½x22 15½x22 15½x22 15½x22	8 6 8 8 8 6 8 12 12 12 16 16	######################################	750 514 514 514 514 360 360 360 327 327 327 327 327	210 177 177 216 216 239 287 239 287 243 263 298 341	57 54 72 54 78 78 80 80 132 132 132	67 79 79 79 79 120 120 120 117 117 117	22 26 26 26 26 29 29 29 29 39 39 39	34000 43000 44000 51000 52000 85000 103000 86000 104000 164000 194000 199000	
CLEVELAND — G. M. 3-268A 4-268A 6-268A 8-268A 8-268A 8-278A 8-278A 12-278A 16-278A	250 375 500 615 820	6½x7 6½x7 6½x7 6½x7 8%x10½ 8%x10½ 8%x10½	3 4 6 8 6 8 12 16	696.8 929.1 1393.7 1858.3 3788.3 5051.0 7576.6 10102.0	1300 1300 1300 1300 750 750 750 750		**** **** **** ****		2000 2000 2000 2000 2000	4500 5400 6800 8400 15000 18000 24000 29500	
CUMMINS  AM-600  HM-400  HRM-400  HRM-600  HRM-600  HRMS-600  NHM-600  NHM-600  NHMS-600  NHRMS-600  NVHMS-600  NVHMS-600  LW-600  LW-600  LRM-600		4x5 4%x6 5%x6 5%x6 5%x6 5%x6 5%x6 5%x6 5%x6 5	6 4 4 6 6 6 6 6 6 6 12 12 6 6	377 448 495 672 743 743 743 743 1486 1486 2309 2477	2200 1800 1800 1800 1800 2100 2100 2100	47 44 44 58 58 60 60 60 60 73 73 95	29 30 30 30 30 32 28 32 32 41 42 46 46	29 35 35 35 36 36 36 37 37 44 44	10 11 11 12 12 12 12 12 12 12 15 15	1519 1720 1715 2490 2495 2700 2625 2955 2895 4300 4550 9240	
2-71 Pleasure Craft	54 47 96 68 129 92 195 140 390 280 14. 390 at 280 560	4½ x5 4½ x5 6x5½ 5x5½	2 2 3 3 4 4 6 6 12 12 12 12 24 24 6 6	141.9 141.9 212.8 212.8 283.7 288.7 425.6 425.6 851.2 851.2 851.2 1702.4 1702.4 660 660	2000 1800 2000 1800 2000 1800 2000 1800 2000 1800 2000 1800 2000 1800 18	51 51 56 62 62 62 73 73 80 129 129 129 128 99	30 30 33 33 33 33 33 55 55 55 37 56 56 35	30 30 33 33 33 33 33 33 38 42 42 42 38 40 40	66 88 88 88 88 166 165 155 166 168 88	1300 1300 2020 2020 2410 2410 2645 6400 6400 7550 7260 12600 12600 4000 4000	
Pleasure Craft: Rated Weights and Dimensi	SHP;	Work Boat	Con	tinuous ected.	SHP.						
ENTERPRISE  DM-3  DM-13  DM-4  DM-14  DM-6  DM-16  DMX-6  DMX-8  DMX-36  DMX-316  DMG-6  DMG-16  DMG-36  DMG-36  DMG-38  DMG-38	110 120 150 180 225 375 520 565 615 695 615 820 825 1230	8x10 8x10 8x10 8x10 8x10 8x10 10½x12 10½x12 10½x12 12x15 12x15 12x15 12x15 12x15 12x15 12x15 12x15 12x15 12x15	33446666666666888886		600 756 600 750 600 750 550 600 450 600 450 600 450 600 450 600 327	84 84 100 100 124 175 175 175 175 193 193 193 193 227 227 227 227	47 47 47 47 47 47 39 39 46¼ 46¼ 46¼ 46¼ 46¼ 60	46 46 46 46 46 66% 75% 75% 75% 75% 75% 98	13 13 13 13 13 16 16 16 16 18 18 18 18 18 18 18 18	5000 5000 6500 6500 9000 9000 26000 28000 28000 28000 34500 34500 45000 47000 47000 77000	

# THE COOPER-BESSEMER CORPORATION MOUNT VERNON, OHIO

Plants: Mount Vernon, Ohio, and Grove City, Pa.

WEST COAST OFFICES

640 East 61st St., Los Angeles, Calif. — 570 First Avenue South, Seattle, Wash. 29 Pine St., San Francisco, Calif.

OTHER OFFICES AND REPRESENTATIVES

New York

Washington St. Louis Houston Gloucester, Massachusetts Calmes Engineering Company, New Orleans

The offices listed above will gladly furnish detailed information concerning any model in the complete line of Cooper-Bessemer marine and stationary diesel engines. All C-B Diesels feature patented T-type wristpin bearings for longer bearing wear and minimum maintenance, full-pressure lubrication throughout, and the patented controlled-pressure fuel system for maximum economy and engine efficiency. Horsepower ratings depend upon types of services for which the engines are intended.



TYPE GS

Type GS—Four cycle, marine and stationary types with oil-cooled pistons. Built in six- and eight-cylinder units and rated 350 to 960 horsepower.



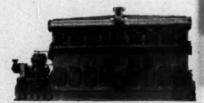
TYPE JS

Type JS—Four cycle, marine and stationary types with oil-cooled pistons. Built in 6- and 8-cylinder units. Rated 500 to 1300 horsepower.



TYPE LSV

Type LSV—Four cycle, marine and stationary diesel engines, built in four and six-cylinder units and rated 1500 to 3700 horsepower. (Supercharged stationary unit fillustrated).



TYPE LS

Type LS—Four cycle, marine and stationary types with oil-cooled pistons. Built in 6-, 7- and 8-cylinder units and rated 750 to 1850 horsepower.

Supercharging by means of the efficient exhaust-turbo-blower method, is available for all Cooper-Bessemer Diesel Engines and offers an approximate increase in horsepower of 30 to 50%

Model Name							_	— I	nches -		
DMG-98	Model Name or Number	н.р.		Cyl.	Displ.		Length	Max. Width	Height Above Shaft	Depth Below Shart	Weight
DMG-98	DMQ-16	875					272	60	98	26	79000
DMG-98	DMQ-316	1315					272 272	60	98	26 26	
DMG-SIS   1765   16:20   8   30   30   60   98   28   97000	DMQ-8	1060				327	320	60	98	26	95000
DMG-SIS   1755   16220   8   380   320   60   98   25   97000	DMQ-38	1595		8		327	320			26	
### STATES	DMQ-818	1756	16x20	8		360	320	60	98	26	97000
FOUR-DIST    30   3\frac{1}{2}\times \text{A}{2}\times \frac{1}{2}   4   157   1800   49   21   26   5   1100	FLAGSHIP										
FOUT-DIST   30   35% x45%   4   157   1800   49   21   22   30   5   1400	248LD	100	3%x4	6	248	2800	50	25	20	10	1245
ACT					-						
ACT	Four-D157		3%x4%		157			21	26	5	
DIA DIM	Six-D572	135	4% x5%	6	572	2200	72-78	24	29	11	2700
187.CM	HALLETT										
187.CM	ACI	5	3½x3%	1	34.8	2000	27	15	17		220
187.CM	D1A, D1M	18	3% X4%	2	100	1800		23	24	13	635 895
187.CM					- 77947						
## 17			414×51/4	1	87.5	1400	25%		29	1114	1180
## 17	287-CM	58	41/2×51/2	2	174	1400	321/		29	11%	1350
KAHLENBERG         36 $8\frac{1}{9}x9$ 2         1021         400         5450           AD         36 $8\frac{1}{9}x9$ 3         1532         400         6500           BD         60         10x10\frac{1}{9}z         2         1649         400         7300           AF         70 $8\frac{1}{2}x9$ 4         2043         400         8200           BT         90         10x10\frac{1}{2}z         3         2474         400         9700           BF         120         10x10\frac{1}{2}z         3         2474         400         9700           B5         150         10x10\frac{1}{2}z         4         4229         400         11980           B5         150         10x10\frac{1}{2}z         5         4123         375         16650           CT         150         12\frac{1}{2}x14         3         5154         325         21800           B6         180         10x10\frac{1}{2}z         6         4948         375         17050           CF         200         12\frac{1}{2}x14         5         8590         325         29000           C5         250         12\frac{1}{2}x14	487-CM	117	41/2 X51/2 41/4 X51/2						29	117	2175
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	687-CM	175	41/4×51/4	6	522	1400	62%		29	11%	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	KAHLENBERG										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	AD						****	****			
BT	BD	60	10x101/2	2	1649	400		****			7300
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	AF		8½x9		2043						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	RF	120	10x101/2	4	3299	400					11980
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	B5	150	10x10½		4123 5154						15650 21800
Kermath			10x1036	6	4948	375					17050
Kermath	CF	250	12½x14 12½x14				****		****		29000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C6	300	12½×14	6	10308	325	****	****	****		34000
4-226					5.2			-			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								24			
Late	6-298	75	334 x41/2	- 6	298	2000	55	25	23	10	1550
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6-529	130	5% x6	6	935		88	37	36	15	5000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D-50		5½x7								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			51/2×7		665	900					
LISTER-BLACKSTONE, INC.   3.1	D-90	90	51/2×7	6	998	900	96	30	31	10	4200
LISTER-BLACKSTONE, INC.   3.1	D-100 DH-200	187	5½x7 5¾x6		998						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						133					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3-1	3.5	3% x51/2				****	****			750
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			4½ x5½			650					760 1120
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CD	8	41/2×4%	i		1200	****				980
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9-1		41/4×51/6	1		1000	****				1175
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18-2	21	# 12 MW 12			1200	****	****	****	****	1625
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			4½x5½			1200	****	****	****		2275
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	616	63	41/4×51/4	6		1200	****	****	****	****	3000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EV3	135	8% x11%	3		600	****	****	****		10375
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	EV4	180	8%x11½	4		600	****	****	****		14160
A.S.1 8 41/4 1 1500 540	EV6	270	8%x111/2			600		****	****		15660
A.S.1 8 41/4 1 1500 540	EV8	360	8% x11½	8		600			****		18860
A.S.1 8 41/4 1 1500 540	EV86	360	8% x11%	6		600			****		15960
				8		1500					19900
	A.8.2			2							725

						_				
Model Name or Number	н.р.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Width	Height Above Shaft	Below Shaft	Weight
MURPHY										
ME-90	100 110 115 125 135 145 150 165	5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½ 5% x6½	44446666666	675 675 735 675 735 927 927 1013 1103 1013 1103	1200 1200 1200 1200 1200 1200 1200 1200	91 91 91 91 115 115 115 115 115	39 39 39 39 38 38 38 38 38 38	52 52 52 52 52 52 52 46 52 52 46 46	11 11 11 11 11 9 9 9	6500 6650 6685 6830 6860 7990 8255 8000 8265 8265
NORDBERG										
4FS1-CE 4FS2-CE FMD-96-R FMD-97-R FMD-98-R FMD-98-RSC FMD-97-RSC FMD-136- FMD-136 FMD-138 FMD-138- FMD-138-SC FMD-137-SC FMD-137-SC FMD-137-SC	30 320 370 425 480 565 640 685 800	4½x5½ 4½x5½ 9x11½ 9x11½ 9x11½ 9x11½ 9x11½ 9x11½ 13x16½ 13x16½ 13x16½ 13x16½ 13x16½ 13x16½	12678678678	\$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$2000000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$200000 \$20	1800 1800 720 720 720 720 720 720 514 514 514 514 514	50 66 175 189 203 216 236 216 226 216 226 256	65 28 51 51 51 51 51 64 64 64 64 64	41 41 65 65 65 73 73 73 34 84 84 92 92	######################################	14 240 240 2656 291 2500 2750 3000 470 5150 5600 4800 5250 5700
0800										100
235D* Herc 470TD* Herc 685TD* Herc * Available in direct di	85	4x4.5 4x4.5 3.75x4.5 and 3:1 rec	2 4 6 luction	113 226 298 1 gears	1800 2400 2400	45 53 60	26 28 28	26 25 25	9.5 11 11	1027 1850 1455
PALMER RND-1 RND-4*	9	41/6×6	1 4	80 320	1000 1200	32 80 96	25 28 28	28 35	13 10	900 2800 3500
RND-6* With reduction	60	41%x6 41%x6	6	480	1200	96	28	35	10	3500
D-30	30	35iax3%	4	129	1800	42	23	20	10	600
D-65	65	414×414	6	255 525	1900 2000	50 72	24 24	25 30	10 12	1250 1900
140-HK D6-160 D6-200	160	3516x334 44x442 44x442 54x6 64x642	6	779 1197	1400 1300	78 88	30	27 32	15 15	4000 5200
REGAL DHB	30	4¼x4½	2	127	1800	40	22	13	9	875
SCRIPPS										
4-166	55	3%x4 4¼x4½	4	166 255	3000 2600	43	21 221/	22%	10	950 1195 1382
8500 6-935	84	4x41/4 5%x6	6	298 935	2600 2000	54 88	221/ 251/	36	10 18	1383 4700
SHEPPARD				100						***
14C	544	3x4 4x5	1 1	28 63	2000 1200	37 51	26 31	21	9	490 2100
7D 13C		4¼x5 4x5	1 2	71 125.7	1200 2000	51 44	31 24	27	11	2100 1500
13F	33	4½x5 4x5	2	141.9	2000	44	24	27 27 27	11	1500
6C 6F	241	4x5 4¼x5 4x5	3	212.8	2000 2000 2000 2000	52	24 24 24 25 25	27 30	11	1865 1865 2100
12C 12F	30	4x5 4¼x5	223366	125.7 141.9 188.5 212.8 877 425.6	2000	52 52 71 71	25 25	30	13 13	2100 2100
STAR									40	002
Emperor 2D30 Emperor 4D75	70	414×414 414×414	4	127 255	1800 2600	42 49	25 25	21 23	10 10	865 1150
Emperor 2D30	85 175 205	4¼x4½ 4¼x4½ 3¾x4½ 5x6 5¾x6	2 4 6 6 6	298 707 935	2600 2100 2100	56 77 89	25 25 27 82 37	23 24 32 36	10 14 10	1350 3100 4500

						— In	ches -		
H.P.	Bore Stroke	Cyl.	Piston Displ. Cu. Ins.	Max. R.P.M.	Length	Max. Width	Height Above Shaft	Depth Relow Shaft	Weight
325	814×1014	6	******	900	****	****	****		14500 17000
490	8½x10½	6		900	****	****	****		15500
450	8½x10½		*******		****	****	****	****	18000 20000
400	9x12	8	*******	650	****	****	****	****	24000
450	9x12	6	*******	650	****	***	****	****	21000 25000
515		6		500	****	****	****		38000
685	12x15	8	*****	500	****	****	****	****	45000 40000
1030		8		500	****	****	****	****	47500
720	14½ x20	6	*****	360	****	****	****	****	68000 83000
1080	14½ x20				****		****	****	72000
1440	14½x20	8	******	360	****	****	****	****	90000
model i	ndicates su	perch	arged.						
47	3% x41/2	6	298	1800	46	26	20	13	1450
76	4% x514	6				26	25		2325 4360
225	8½x11				119	34	55	13	12500
300	81/2×11	8	4980	.600	148	34	57	13	16000
450	10x14 10x14		6600		135	42	68		20000 21000
400	10x14	8	8800	470	171	42	68	17	26000
		8	10200		202		68		26500 36500
775	12x15	6	10200	500	202	461/2	74	19	38000
675	12x15	8	13600	500		461/4	74		46000
700	14x19	6					92	22	53000
1000	14x19	6	17500	400	185	57	92	22	54500
1375		8			239	57	92	22	70000 72000
750	16x2014		24750	300	203	62	101	24	80000
1000					203				81500 98000
1500	16x201/2	8	33000	300	259	62	101	24	100000
	0-101/			400					13500
120	9x121/9		*****		****	****	****		14700
150	9x121/4	5	*****	400	****	****	****	****	16500
200	9x12½		Access.		****	****	****	****	18000 21000
120	101/4×131/4	3	*****	390	****	****		****	15000
160	10½ x13½	4	*****			****	****	****	18500 23000
350	1014 x1314			390	****	****	****	****	26500
200	11½x15	4	003200	327		****	****	9984	27000 31500
330	11½x15		******		****	****	****	****	40500
400	12% x16	6	******	360	****	****	****	****	42000
550	12% x16	8	**		****	****	****	****	53000 62500
			*****	300	****		****	****	80000
640 850	16x20 16x20	8	*****	277 277	****	****	* ****	****	82000 105000
		1							
					144	49	5.4	48	
125	8x101/2	5		500		49	54	15	13400
125 150	8x101/2	6		500	159 212	43	54 83	15 24	15700
125 150 480 575	8x10½ 12x14 12x14	6 5 6		500 600 600	159 212	43 48 48	54 83 83	15 24	15700
125 150 480 575	8x101/2 12x14 12x14 12x14	6 5 6 7		500 600 600 600	159 212 236 256	43 48 48 48 48	54 83 83 83 83	15 24 24 24 24	15700
125 150 480 575 670 765 720	8x10½ 12x14 12x14 12x14 12x14 12x14 12x14	6 5 6 7 8 5		500 600 600 600 600 600	159 212 236 256 283 229	43 43 48 48 48 48 48	54 83 83 83 83 90	15 24 24 24 24	15700 33500 39500 46000 51500 43300
125 150 480	8x10½ 12x14 12x14 12x14 12x14	6 5 6 7		500 600 600 600	159 212 236 256 283	43 48 48 48 48 48 48	54 54 83 83 83 83 90 90	15 24 24 24 24	15700 33500 39500 46000 51500
	325 -436 -436 -436 -436 -430 -450 -450 -450 -600 -515 -770 -1030 -1080 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1440 -1450 -	## P. Stroke    325   8½x10½   435   8½x10½   490   8½x10½   450   8½x10½   450   9x12   400   9x12   450   9x12   515   12x15   770   12x15   720   1½x20   14½x20   12x15   12x15	## P. Stroke Cyl.    325   8\frac{1}{2}\times 10\frac{1}{2}   6     435   8\frac{1}{2}\times 10\frac{1}{2}   6     450   8\frac{1}{2}\times 10\frac{1}{2}   8     450   9\times 12   6     450   9\times 12   6     450   9\times 12   6     600   9\times 12   6     685   12\times 15   8     770   12\times 15   8     720   14\frac{1}{2}\times 20   8     1080   14\frac{1}{2}\times 20   8     1080   14\frac{1}{2}\times 20   8     1080   14\frac{1}{2}\times 20   8     1440   14\frac{1}{2}\times 20   8     model   indicates superch    47   3\frac{1}{2}\times 13\frac{1}{2}\times 6     149   5\frac{1}{2}\times 6     225   8\frac{1}{2}\times 11   8     300   10\times 14   8     600   10\times 14   8     600   10\times 14   8     600   12\times 15   8     700   14\times 19   6     12\times 15   8     700   14\times 19   6     12\times 15   8     700   14\times 19   6     12\times 15   8     700   14\times 19   8     1375   14\times 19   8     137	## H.P. Stroke Cyl. Cu. Ins.  ## 325	## H.P. Stroke Cyl. Cu. Ins.   ## 325	325   8\frac{1}{2}\times 10\frac{1}{2}   6   900   9	R.P.   Stroke   Cyl. Cu. Ins.	### Piston ####################################	325   8½x10½   6   900

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tery St.
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W. First St.
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\*†Pacific Marine Supply Co., 1223 Western

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Tubbs Cordage Co	53
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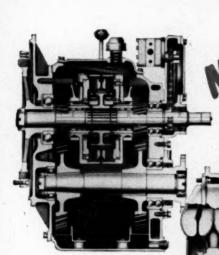
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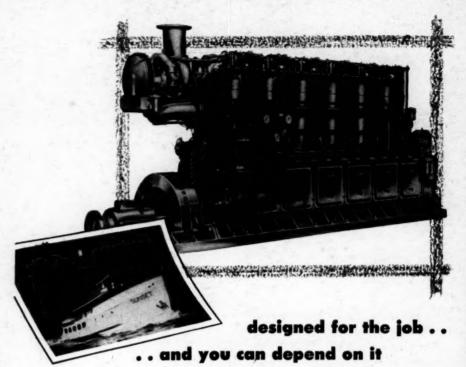
Model	HP Capacity	Engine RPM
MG-55	20-70	800-2500
MG-61	40-110	900-2500
MG-165	105-175	1200-2000
MG-166	105-175	1200-2000
MG-200	90-175	600-1500
MG-201	120-180	600-1000
MG-175**	85-205	900-2100
MGH-220*	80-230	1200-2100
MG-302**	150-273	600-1500
MGH-34\*	150-340	700-1500

\*Hydraulic coupling gears: can be equipped with HYDRO-TROLL variable-fill coupling to multiply reduction for slo-speed.

\*\*With rubber block drive.

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